

Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

June 2, 2005

Oregon Department of Environmental Quality
Northwest Region
2020 SW Footh Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

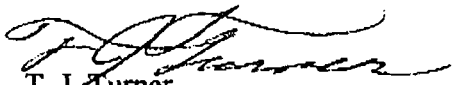
Dear Mr. Zais,

Attached please find subject report for the month of May 2005.

During the month, we had two regular discharges of our 220,000-gallon storage tanks. The first "slug" discharge of the 220,000 gallons was pumped over two days May 11th and 12th and the second was pumped over two days May 25th and 26th. There were no excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
turnertj@koppers.com

Sincerely,


T. J. Turner
General Foreman

CC: M. Pronold, City of Portland, Environmental Services
T. Self, KII
B. Bauman, KII

Environmental Services	
Discharge	<input checked="" type="checkbox"/>
Storage	<input checked="" type="checkbox"/>
Transfer	<input type="checkbox"/>
Receiving	<input type="checkbox"/>
Storage	<input type="checkbox"/>
Transfer	<input type="checkbox"/>
Receiving	<input type="checkbox"/>
Storage	<input type="checkbox"/>
Transfer	<input type="checkbox"/>
Receiving	<input type="checkbox"/>

Environmental Department Document Control										
<input checked="" type="checkbox"/> Date Received	6/2/05									
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<input type="checkbox"/> Exceptions:										
<input type="checkbox"/> Approved:	(initials/date)									
<input type="checkbox"/> Distribution:	<table border="0"> <tr> <td>Leslie</td> <td>John</td> <td>Patrick</td> </tr> <tr> <td>Tim</td> <td>Traci</td> <td>Linda</td> </tr> <tr> <td>Mary</td> <td>Heather</td> <td></td> </tr> </table>	Leslie	John	Patrick	Tim	Traci	Linda	Mary	Heather	
Leslie	John	Patrick								
Tim	Traci	Linda								
Mary	Heather									
<input type="checkbox"/> Copy to:										
<input checked="" type="checkbox"/> File	Date: 6/3/05									

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road
Portland, OR. 97210-3663

FACILITY LOCATION Northwest Terminal
Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OR-000077-9
PERMIT NUMBER

001
DISCHARGE NUMBER

47430

101642

☐ Check here if No Discharge

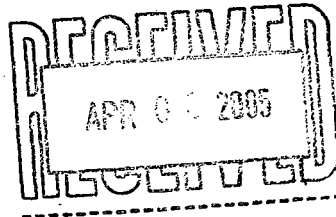
NOTE: Read instructions before completing this form

PARAMETER (32-37)	X	(3 Card Only) (48-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW SEE COVER LETTER	SAMPLE MEASUREMENT			GPD					0	N/A	CALC.
	PERMIT REQUIREMENT										
TEMPERATURE	SAMPLE MEASUREMENT				14.9	15.4	15.9	° C	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A				
PH	SAMPLE MEASUREMENT				6.8	7.0	7.2	SU	0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASE	SAMPLE MEASUREMENT				0.0	1.3	2.5	mg/L	0	1/7	GRAB
	PERMIT REQUIREMENT				0.0	10.0	15.0				
PHENOLS	SAMPLE MEASUREMENT				<0.05	0.056	0.056	mg/L	0	1/30	GRAB
	PERMIT REQUIREMENT				0.0	0.5	0.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY KNOWLEDGE OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1318. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE	DATE			
R. D. Collins		503, 286-3681	05	06	02	
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII



Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

April 4, 2005

Oregon Department of Environmental Quality
Northwest Region
2020 SW Footh Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of March 2005.

During the month, we had one regular discharge of our 220,000-gallon storage tanks. There was one "slug" discharge of the 220,000 gallons, which was pumped over three days March 29th, 30th and 31st. There were no excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
turnertj@koppers.com

Sincerely,

T. J. Turner
General Foreman

CC: M. Pronold, City of Portland, Environmental Services
T. Self, KII
B. Bauman, KII

Integrated Environmental Services	
Monthly Report	
Report Period	March 2005
Reported By	T. J. Turner
Reviewed By	
Approved By	
Signature	
Date	April 4, 2005
Comments	
Attachments	
Notes	
Other	

Environmental Department Document Control										
<input checked="" type="checkbox"/>	Date Received <u>4/19/05</u>									
<input checked="" type="checkbox"/>	Logged: <u>4/19/05 AB</u> (initials/date)									
<input type="checkbox"/>	Exceptions: _____									
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<input type="checkbox"/>	Distribution:									
	<table> <tr> <td>Leslie</td> <td>John</td> <td>Patrick</td> </tr> <tr> <td>Tim</td> <td>Traci</td> <td>Linda</td> </tr> <tr> <td>Mary</td> <td>Heather</td> <td></td> </tr> </table>	Leslie	John	Patrick	Tim	Traci	Linda	Mary	Heather	
Leslie	John	Patrick								
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Mary	Heather									
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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road
Portland, OR. 97210-3663

FACILITY NORTHWEST Terminal
LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-18) (17-18)

OR-000077-9
PERMIT NUMBER

001
DISCHARGE NUMBER

47430

101642

☐ Check here if No Discharge

NOTE: Read Instructions before completing this form

Form Approved
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD
FROM YEAR MO DAY TO YEAR MO DAY
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)
05 03 01 05 03 31

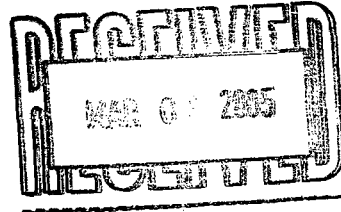
PARAMETER (32-37)	SAMPLE MEASUREMENT	QUANTITY OR LOADING (3 Card Only) (48-53)			QUALITY OR CONCENTRATION (4 Card Only) (38-45)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (68-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
FLOW SEE COVER LETTER	PERMIT REQUIREMENT			GPD					0	N/A	CALC.
TEMPERATURE	SAMPLE MEASUREMENT				11.6	11.8	12.0	°C	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A				
PH	SAMPLE MEASUREMENT				6.8	6.9	7.0	SU	0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASE	SAMPLE MEASUREMENT				5.7	5.7	5.7	mg/L	0	1/7	GRAB
	PERMIT REQUIREMENT				0.0	10.0	15.0				
PHENOLS	SAMPLE MEASUREMENT				<0.05	<0.05	<0.05	mg/L	0	1/30	GRAB
	PERMIT REQUIREMENT				0.0	0.5	0.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1316. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 5 months and 5 years.)	TELEPHONE	DATE		
TYPED OR PRINTED R. D. Collins		T. J. Turner	503, 286-3681	05	04

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII



Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
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March 2, 2005

Oregon Department of Environmental Quality
Northwest Region
2020 SW Footh Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of February 2005.

During the month, we had one regular discharge of our 220,000-gallon storage tanks. There was one "slug" discharge of the 220,000 gallons, which was pumped over two days February 15th and 16th. There were no excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
turnertj@koppers.com

Sincerely,

T. J. Turner
General Foreman

CC: M. Pronold, City of Portland, Environmental Services
T. Self, KII
B. Bauman, KII

Environmental Department Document Control										
<input checked="" type="checkbox"/> Date Received	2/3/05									
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<input type="checkbox"/> Distribution:	<table border="0"> <tr> <td>Leslie</td> <td>John</td> <td>Patrick</td> </tr> <tr> <td>Tim</td> <td>Traci</td> <td>Linda</td> </tr> <tr> <td>Mary</td> <td>Heather</td> <td></td> </tr> </table>	Leslie	John	Patrick	Tim	Traci	Linda	Mary	Heather	
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Tim	Traci	Linda								
Mary	Heather									
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<input checked="" type="checkbox"/> File	Date: 3/29/05									

Mar. 02 2005 01:24PM P2

FAX NO. :5032852831

FROM : KOPPERS

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road

Portland, OR. 97210-3663

FACILITY NORTHWEST Terminal

LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16) (17-19)OR-000077-9
PERMIT NUMBER001
DISCHARGE NUMBER

47430

101642

☐ Check here if No Discharge

NOTE: Read instructions before completing this form

Form Approved
OMB No. 2040-0004
Approval expires 05-31-99

PARAMETER (32-37)	X	QUANTITY OR LOADING (45-53)			QUALITY OR CONCENTRATION (38-45)			QUALITY OR CONCENTRATION (46-53)			NO. EX (52-53)	FREQUENCY OF ANALYSIS (54-55)	SAMPLE TYPE (56-57)				
		AVERAGE (45-53)	MAXIMUM (54-55)	UNITS (56-57)	MINIMUM (38-45)	AVERAGE (46-53)	MAXIMUM (54-55)	UNITS (56-57)									
FLOW SEE COVER LETTER	SAMPLE MEASUREMENT			GPD						0	N/A	CALC.					
	PERMIT REQUIREMENT																
TEMPERATURE	SAMPLE MEASUREMENT				7.8	7.9	7.9	°C	0	1/7	GRAB						
	PERMIT REQUIREMENT				N/A	N/A	N/A										
PH	SAMPLE MEASUREMENT				6.9	7.0	7.2	SU	0	1/7	GRAB						
	PERMIT REQUIREMENT				6.0		9.0										
OIL & GREASE	SAMPLE MEASUREMENT				2.2	2.2	2.2	mg/L	0	1/7	GRAB						
	PERMIT REQUIREMENT				0.0	10.0	15.0										
PHENOLS	SAMPLE MEASUREMENT				0.057	0.057	0.057	mg/L	0	1/30	GRAB						
	PERMIT REQUIREMENT				0.0	0.5	0.7										
	SAMPLE MEASUREMENT																
	PERMIT REQUIREMENT																
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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY HOLDS OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1312. (Penalties under these statutes may include fines up to \$10,000 and or a term of imprisonment of between 5 months and 5 years.)										TELEPHONE		DATE			
R. D. Collins		T. J. Turner										503, 286-3681		05 03 02			
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT										AREA CODE		NUMBER		YEAR MO DAY	

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII

Koppers003014

**Koppers Inc.****Carbon Materials and Chemicals**

7540 NW Saint Helens Road

Portland, OR 97210-3663

Tel 503 286 3681

Fax 503 285 2831

www.koppers.com

February 1, 2005

Oregon Department of Environmental Quality
 Northwest Region
 2020 SW Forth Ave., Suite 400
 Portland, Oregon 97201-4987

Attention: Elliot J. Zais
 Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
 Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of January 2005, including the 1st quarter PAH test results.

For the month, we had one regular discharge of our 220,000-gallon storage tanks, for the month. The one "slug" discharge of the 220,000 gallons was pumped over two days January 18th and 19th. There were no excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: turnertj@koppers.com

Sincerely,

T. J. Turner
 T. J. Turner
 General Foreman

CC: M. Pronold, City of Portland, Environmental Services
 T. Self, KII
 B. Bauman, KII

Environmental Department Document Control												
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<input type="checkbox"/>	Exceptions:											
<input type="checkbox"/>	Approved:	(initials/date)										
<input type="checkbox"/>	Distribution:	<table> <tr> <td>Leslie</td> <td>John</td> <td>Patrick</td> </tr> <tr> <td>Tim</td> <td>Traci</td> <td>Linda</td> </tr> <tr> <td>Mary</td> <td>Heather</td> <td></td> </tr> </table>		Leslie	John	Patrick	Tim	Traci	Linda	Mary	Heather	
Leslie	John	Patrick										
Tim	Traci	Linda										
Mary	Heather											
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<input checked="" type="checkbox"/>	File	Date:	2/16/05									

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road
Portland, OR. 97210-3663

FACILITY NORTHWEST Terminal
LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

OR-000077-9

PERMIT NUMBER

001

DISCHARGE NUMBER

47430

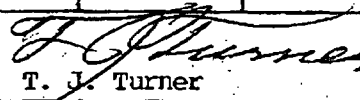
101642

☐ Check here if No Discharge

NOTE: Read Instructions before completing this form

MONITORING PERIOD								
YEAR			MO			DAY		
FROM	05	01	01	TO	05	01	31	
(20-21)			(22-23)			(24-25)		
						(26-27) (28-29) (30-31)		

PARAMETER (32-37)	SAMPLE MEASUREMENT PERMIT REQUIREMENT	(3 Card Only) (46-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (68-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
FLOW SEE COVER LETTER				GPD					0	N/A	CALC
TEMPERATURE					6.5	7.3	7.9		0	1/7	GRAB
					N/A	N/A	N/A				
PH					6.8	7.0	7.1		0	1/7	GRAB
					6.0		9.0				
OIL & GREASE					3.3	3.3	3.3		0	1/7	GRAB
					0.0	10.0	15.0				
PHENOLS					<0.050	<0.050	<0.050		0	1/30	GRAB
					0.0	0.5	0.7				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	<small>I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 33 U.S.C. § 1301 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)</small>	TELEPHONE	DATE		
R. D. Collins TYPED OR PRINTED		 T. J. Turner SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	503.286-3681	05	02

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

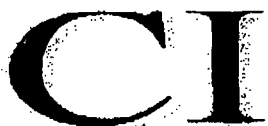
CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman,

Feb. 01 2005 01:24PM P2

FAX NO. : 5032852831

FROM: KOPPERS

Koppers003017



CERTIFICATE OF ANALYSIS

CLIENT: Koppers Industries, Inc.
ATTN: Amos Kannerer
7840 NW St. Helens Road
Portland OR, 97210-3883

PROJECT NAME: Stormwater Tanks

PHONE: (503) 286-3681

FAX: (503) 285-2831

SUBMITTED: 01/17/05 14:02

REPORT DATE: 01/24/05 10:23

REPORT NUMBER: 5011705

PAGE: 1 OF 1

CI SAMPLE	CLIENTS ID#	DATE	TIME	MATRIX
5011705-01	Stormwater Tanks	01/17/2005	1315	Water

SAMPLE/ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME
6011705-01 SAMPLE ID: Stormwater Tanks							
General Bench Analysis							
O & G, TOTAL (HEM)	EPA 1884	TOTAL OIL AND GREASE	3.3	mg/L	2.0	PA	01/18/2005 14:17
PHENOLS, TOTAL	EPA 420.1	TOTAL RECOVERABLE PHENOLICS	ND	mg/L	0.050	KRT	01/18/2005 14:18
Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy							
PNAH 825	EPA 825 (SIM)	ACENAPHTHENE	ND	ug/L	0.04	DM	01/18/2005 10:32
		ACENAPHTHYLENE	ND	ug/L	0.04		
		ANTHRACENE	ND	ug/L	0.04		
		BENZO(a)ANTHRACENE	ND	ug/L	0.04		
		BENZO(a)PYRENE	ND	ug/L	0.04		
		BENZO(b)FLUORANTHENE	ND	ug/L	0.04		
		BENZO(g,h,i)PERYLENE	ND	ug/L	0.04		
		BENZO(k)FLUORANTHENE	ND	ug/L	0.04		
		CHRYSENE	ND	ug/L	0.04		
		DIBENZO(a,h)ANTHRACENE	ND	ug/L	0.04		
		FLUORANTHENE	ND	ug/L	0.04		
		FLUORENE	ND	ug/L	0.04		
		INDENO(1,2,3-cd)PYRENE	ND	ug/L	0.04		
		NAPHTHALENE	ND	ug/L	0.04		
		PHENANTHRENE	ND	ug/L	0.04		
		PYRENE	ND	ug/L	0.04		
		Surrogate: 2-Fluorobiphenyl	102 %	%RECOVERY	50-150		
		Surrogate: Nitrobenzene-D5	113 %	%RECOVERY	50-150		
		Surrogate: p-terphenyl-D14	128 %	%RECOVERY	50-150		

ORIGINAL

This report may not be reproduced except in full.

Authorized for Release By:

Richard D. Reid - Laboratory Director

COLUMBIA INSPECTION, INC 7133 N. Lombard, Portland, OR 97203 Phone: (503) 286-9464 Fax: (503) 286-5355 E-mail: lab@columbiainspection.com

Koppers003018



Environmental Department Document Control										
<input checked="" type="checkbox"/>	Date Received <u>1/5/05</u>									
<input checked="" type="checkbox"/>	Logged: <u>1/5/05 AGI</u> (initials/date)									
<input type="checkbox"/>	Exceptions: _____									
<input type="checkbox"/>	Approved: _____ (initials/date)									
<input type="checkbox"/>	Distribution:									
	<table> <tr> <td>Leslie</td> <td>John</td> <td>Patrick</td> </tr> <tr> <td>Tim</td> <td>Traci</td> <td>Linda</td> </tr> <tr> <td>Mary</td> <td>Heather</td> <td></td> </tr> </table>	Leslie	John	Patrick	Tim	Traci	Linda	Mary	Heather	
Leslie	John	Patrick								
Tim	Traci	Linda								
Mary	Heather									
<input type="checkbox"/>	Copies to: _____									
<input checked="" type="checkbox"/>	File Date: _____									

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road
Portland, OR. 97210-3663

FACILITY NORTHWEST Terminal
LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16) (17-19)

OR-000077-9
PERMIT NUMBER

001
DISCHARGE NUMBER

47430

101642

☐ Check here if No Discharge

NOTE: Read instructions before completing this form

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
04	12	01	04	12	31
FROM (20-21) (22-23) (24-25)			TO (26-27) (28-29) (30-31)		

PARAMETER (32-37)	X	QUANTITY OR LOADING (54-61)			QUALITY OR CONCENTRATION (48-53)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE (48-53)	MAXIMUM (54-61)	UNITS (54-61)	MINIMUM (38-46)	AVERAGE (48-53)	MAXIMUM (54-61)	UNITS (54-61)			
FLOW SEE COVER LETTER	SAMPLE MEASUREMENT			GPD					0	N/A	CALC.
	PERMIT REQUIREMENT										
TEMPERATURE	SAMPLE MEASUREMENT				8.8	9.0	9.1	O C	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A				
PH	SAMPLE MEASUREMENT				7.0	6.9	6.8	SU	0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASE	SAMPLE MEASUREMENT				<2.0	<2.0	<2.0	mg/L	0	1/7	GRAB
	PERMIT REQUIREMENT				0.0	10.0	15.0				
PHENOLS	SAMPLE MEASUREMENT				0.056	0.056	0.056	mg/L	0	1/30	GRAB
	PERMIT REQUIREMENT				0.0	0.5	0.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	<small>I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1374. (Penalties under these statutes may include fines up to \$25,000 and/or criminal imprisonment of between 5 months and 5 years.)</small>	TELEPHONE	DATE			
R. D. Collins		503 286-3681	05	01	05	
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII



Environmental Services

Environmental Department Document Control										
<input checked="" type="checkbox"/> Date Received	12/2/04									
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<input type="checkbox"/> Distribution:	<table> <tr> <td>Leslie</td> <td>John</td> <td>Patrick</td> </tr> <tr> <td>Tim</td> <td>Traci</td> <td>Linda</td> </tr> <tr> <td>Mary</td> <td>Heather</td> <td></td> </tr> </table>	Leslie	John	Patrick	Tim	Traci	Linda	Mary	Heather	
Leslie	John	Patrick								
Tim	Traci	Linda								
Mary	Heather									
<input type="checkbox"/> Copy to:	_____									
<input type="checkbox"/> File	Date: _____									

Dec. 02 2004 12:53PM P2

FAX NO. : 5032852831

FROM: KOPPERS

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road
Portland, OR. 97210-3663FACILITY LOCATION Northwest Terminal
Multnomah CountyNATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)	(17-19)
OR-000077-9	001
PERMIT NUMBER	DISCHARGE NUMBER

47430

101642

☐ Check here if No Discharge

NOTE: Read Instructions before completing this form

Form Approved
OMB No. 2040-0004
Approval expires 05-31-88

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
04	11	01	04	11	30
(20-21) (22-23) (24-25)			(26-27) (28-29) (30-31)		

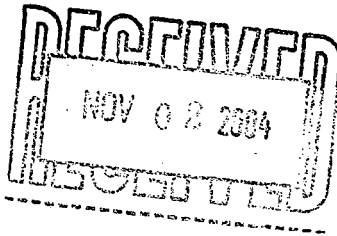
PARAMETER (32-37)	X	(3 Card Only) (46-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
FLOW SEE COVER LETTER	SAMPLE MEASUREMENT			GPD					0	N/A	CALC.
	PERMIT REQUIREMENT										
TEMPERATURE	SAMPLE MEASUREMENT				11.1	9.5	7.9	0	1/7	GRAB	
	PERMIT REQUIREMENT				N/A	N/A	N/A				
PH	SAMPLE MEASUREMENT				6.8	6.9	7.0	0	1/7	GRAB	
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASE	SAMPLE MEASUREMENT				<2.0	<2.0	<2.0	0	1/7	GRAB	
	PERMIT REQUIREMENT				0.0	10.0	15.0				
PHENOLS	SAMPLE MEASUREMENT				<0.05	<0.05	<0.05	0	1/30	GRAB	
	PERMIT REQUIREMENT				0.0	0.5	0.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1315. (Penalties under these statutes may include fines up to \$10,000 and or regular imprisonment of between 6 months and 5 years.)	TELEPHONE	DATE			
R. D. Collins TYPED OR PRINTED		503 286-3681	04	12	02	
	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII

Koppers003024



Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

November 1, 2004

Oregon Department of Environmental Quality
Northwest Region
2020 SW Forth Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of October 2004, including the 4th quarter PAH test results.

For the month, we had three regular discharges of our 220,000-gallon storage tanks, totaling 660,000 gallons for the month. Each "slug" discharge of the 220,000 gallons was pumped on October 13th, 25th and 28th. There were no excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: turnertj@koppers.com

Sincerely,

T. J. Turner
General Foreman

CC: M. Pronold, City of Portland, Environmental Services
T. Self, KII
B. Bauman, KII

Document Control

<input checked="" type="checkbox"/>	Date Received	11/2/04	
<input checked="" type="checkbox"/>	Logged:	AS	(initials/date)
<input type="checkbox"/>	Exceptions:		
<input type="checkbox"/>	Approved:		(initials/date)
<input type="checkbox"/>	Distribution:	Leslie John Patrick Tim Tracy Linda Mary Heather	
<input checked="" type="checkbox"/>	Copy to:		
<input type="checkbox"/>	File	Date:	

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road

Portland, OR. 97210-3663

FACILITY LOCATION Northwest Terminal
Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

OR-000077-9

PERMIT NUMBER

001

DISCHARGE NUMBER

47430

101642

☐ Check here if No Discharge

NOTE: Read instructions before completing this form

Form Approved
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
04	10	01	04	10	31
(20-21) (22-23) (24-25)			(26-27) (28-29) (30-31)		

PARAMETER (32-37)		QUANTITY OR LOADING (3 Card Only) (48-53)			QUALITY OR CONCENTRATION (4 Card Only) (38-45) (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW SEE COVER LETTER	SAMPLE MEASUREMENT			CPD					0	N/A	CALC.
	PERMIT REQUIREMENT										
TEMPERATURE	SAMPLE MEASUREMENT				12.1	14.2	17.6	°C	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A				
PH	SAMPLE MEASUREMENT				6.6	6.9	7.1	SU	0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASE	SAMPLE MEASUREMENT				<2.0	1.3	2.6	mg/L	0	1/7	GRAB
	PERMIT REQUIREMENT				0.0	10.0	15.0				
PHENOLS	SAMPLE MEASUREMENT				0.07	0.07	0.07	mg/L	0	1/30	GRAB
	PERMIT REQUIREMENT				0.0	0.5	0.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R. D. Collins

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY KNOWLEDGE OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 19 U.S.C. § 1001 AND 23 U.S.C. § 1318. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)

T. J. Turner
T. J. Turner

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

503 286-3681

AREA CODE

NUMBER

DATE

04

20

01

YEAR

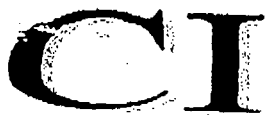
MO

DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII

OCT
2004



CERTIFICATE OF ANALYSIS

CLIENT: Koppers Industries, Inc.
 ATTN: Amos Kameron
 7540 NW St. Helens Road
 Portland OR, 97210-3883

PROJECT NAME: Quarterly Stormwater Test
 PROJECT NUMBER: quarterly stormwater

PHONE: (503) 286-3681

FAX: (503) 285-2831

SUBMITTED: 10/11/04 11:16

REPORT DATE: 10/19/04 10:07

REPORT NUMBER: 4101101

PAGE: 1 OF 1

CI SAMPLE	CLIENTS ID#	DATE	TIME	MATRIX
4101101-01	Stormwater Tanks	10/11/2004	0700	Water

SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME
4101101-01	SAMPLE ID: Stormwater Tanks						
General Bench Analysis							
O & G, TOTAL (HEM) EPA 1664		TOTAL OIL AND GREASE	2.6	mg/L	2.0	AKH	10/12/2004 13:57
PHENOLS, TOTAL EPA 420.1		TOTAL RECOVERABLE PHENOLICS	0.070	mg/L	0.050	AKH	10/12/2004 15:54
Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy							
PNAH 825	EPA 826 (SIM)	ACENAPHTHENE	ND	ug/L	0.04	DM	10/12/2004 16:37
		ACENAPHTHYLENE	ND	ug/L	0.04		
		ANTHRACENE	0.6	ug/L	0.04		
		BENZO(a)ANTHRACENE	0.9	ug/L	0.04		
		BENZO(a)PYRENE	1.8	ug/L	0.04		
		BENZO(b)FLUORANTHENE	4.3	ug/L	0.04		
		BENZO(g,h,i)PERYLENE	2.0	ug/L	0.04		
		BENZO(k)FLUORANTHENE	1.5	ug/L	0.04		
		CHRYSENE	1.9	ug/L	0.04		
		DIBENZO(a,h)ANTHRACENE	1.4	ug/L	0.04		
		FLUORANTHENE	3.0	ug/L	0.04		
		FLUORENE	ND	ug/L	0.04		
		INDENO(1,2,3-cd)PYRENE	1.8	ug/L	0.04		
		NAPHTHALENE	ND	ug/L	0.04		
		PHENANTHRENE	ND	ug/L	0.04		
		PYRENE	ND	ug/L	0.04		
		Surrogate: 2-Fluorobiphenyl	82.1 %	%RECOVERY	50-150		
		Surrogate: Nitrobenzene-D5	77.8 %	%RECOVERY	50-150		
		Surrogate: p-terphenyl-D14	97.1 %	%RECOVERY	50-150		

ORIGINAL

This report may not be reproduced except in full.

Authorized for Release By:

Richard D. Reid - Laboratory Director

Fin
2004



Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

February 4, 2004

Oregon Department of Environmental Quality
Northwest Region
2020 SW Footh Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of January 2004, including the first quarter PAH test results.

For the month, we had four regular discharges of our 220,000-gallon storage tanks, for a total discharge of 880,000 gallons. These "slug" discharges of 220,000 gallons each were pumped on January 16th, 23rd, 28th and 30th. There were no excursions during the month.

Additionally, this is to advise you that effective December 31, 2003 Amos Kameron retired from Koppers. However, Amos will be available to assist me with any administrative matters that may develop. Accordingly, attached please find the letter authorizing me to sign such documents on behalf of Koppers Inc.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: turnertj@koppers.com

Sincerely,

A handwritten signature in dark ink, appearing to read "T. J. Turner". The signature is fluid and cursive, with a large, stylized "T" and "J".

T. J. Turner
General Foreman

CC: M. Pronold, City of Portland, Environmental Services
T. Self, KII
B. Bauman, KII

Environment Department										
Document Control										
<input checked="" type="checkbox"/> Date Received	2/4/04									
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<input type="checkbox"/> Exceptions:										
<input type="checkbox"/> Approved:	(initials, date)									
<input type="checkbox"/> Distribution:	<table border="0"> <tr> <td>Leslie</td> <td>John</td> <td>Patrick</td> </tr> <tr> <td>Tim</td> <td>Tram</td> <td>Linda</td> </tr> <tr> <td>Mary</td> <td>Heather</td> <td></td> </tr> </table>	Leslie	John	Patrick	Tim	Tram	Linda	Mary	Heather	
Leslie	John	Patrick								
Tim	Tram	Linda								
Mary	Heather									
<input type="checkbox"/> Copy to:										
<input type="checkbox"/> File	Date: _____									

Randall D. Collins
Vice President, Safety, Health & Environmental Affairs



January 30, 2004

Koppers Inc.
436 Seventh Avenue
Pittsburgh, PA 15219-1800
Tel 412 227 2456
Fax 412 227 2333
CollinsRD@koppers.com
www.koppers.com

In accordance with the policies of Koppers Inc. (Koppers), the Portland Terminal General Foreman is authorized to sign Permit Applications, Permits, and Reports as required under the Federal Clean Water Act, Resources Conservation and Recovery Act (RCRA), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and applicable related state laws. Such reports include, but are not limited to, Discharge Monitoring Reports, Pretreatment Monitoring Reports, Hazardous Waste Generator and Facility Reports, Air Pollution Control Monitoring Reports, and Hazardous Material reports.

Sincerely,

A handwritten signature in black ink, appearing to read "R. Collins", written over a horizontal line.

Randall D. Collins

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road

Portland, OR. 97210-3663

FACILITY NORTHWEST Terminal

LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-15)

(17-19)

OR-000077-9

PERMIT NUMBER

001

DISCHARGE NUMBER

47430

101642

☐ Check here if No Discharge

NOTE: Read Instructions before completing this form

MONITORING PERIOD								
YEAR			MO			DAY		
FROM	64	01	01	TO	04	01	31	
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)	

PARAMETER (32-37)	SAMPLE MEASUREMENT (38-41)	QUANTITY OR LOADING (42-45)			QUALITY OR CONCENTRATION (46-53)				NO. EX (54-57)	FREQUENCY OF ANALYSIS (58-61)	SAMPLE TYPE (62-65)
		AVERAGE (42-43)	MAXIMUM (44-45)	UNITS (46-47)	MINIMUM (48-49)	AVERAGE (50-51)	MAXIMUM (52-53)	UNITS (54-55)			
FLOW SEE COVER LETTER				GPD					0	N/A	CALC.
TEMPERATURE					6.5	8.1	9.8		0	1/7	GRAB
					N/A	N/A	N/A				
PH					7.1	7.2	7.3		0	1/7	GRAB
					6.0		9.0				
OIL & GREASE					<2.0	<2.0	<2.0		0	1/7	GRAB
					0.0	10.0	15.0				
PHENOLS					<0.05	<0.05	<0.05		0	1/30	GRAB
					0.0	0.5	0.7				

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 16 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 3 years.)	TELEPHONE	DATE		
R. D. Collins TYPED OR PRINTED		T. J. Turner SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	503, 286-3681 AREA CODE NUMBER	04	02

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII

b. 04 2004 12:39PM P3

FAX NO. :5032852831

FROM : KOPPERS

Koppers003034

CI**CERTIFICATE OF ANALYSIS**

CLIENT: Koppers Industries, Inc.
7540 NW St. Helens Road
Portland OR, 97210-3663
ATTN: Amos Kameroner

PROJECT NAME: Quarterly Stormwater Test
PROJECT NUMBER: quarterly stormwater

PHONE: (503) 286-3681
FAX: (503) 285-2831

SUBMITTED: 01/14/04 11:46

REPORT DATE: 01/16/04 15:06

REPORT NUMBER: 4011404

PAGE: 1 OF 1

CI SAMPLE	CLIENTS ID#	DATE	TIME	MATRIX			
4011404-01	Stormwater Tanks	01/14/2004	0000	Water			
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME
4011404-01	SAMPLE ID: Stormwater Tanks						
General Bench Analysis							
O & G, TOTAL (HEM)	EPA 1664	TOTAL OIL AND GREASE	ND	mg/L	2.0	PA	01/14/2004 16:34
PHENOLS, TOTAL	EPA 420.1	TOTAL RECOVERABLE PHENOLICS	0.14	mg/L	0.050	AKH	01/16/2004 15:13
Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy							
PNAH 625	EPA 625 (SIM)	ACENAPHTHENE	12.9	ug/L	0.05	DM	01/16/2004 09:09
		ACENAPHTHYLENE	2.4	ug/L	0.05		
		ANTHRACENE	2.3	ug/L	0.05		
		BENZO(a)ANTHRACENE	2.5	ug/L	0.05		
		BENZO(a)PYRENE	4.4	ug/L	0.05		
		BENZO(b)FLUORANTHENE	4.3	ug/L	0.05		
		BENZO(g,h,i)PERYLENE	2.6	ug/L	0.05		
		BENZO(k)FLUORANTHENE	4.4	ug/L	0.05		
		CHRYSENE	4.7	ug/L	0.05		
		DIBENZO(a,h)ANTHRACENE	0.8	ug/L	0.05		
		FLUORANTHENE	9.1	ug/L	0.05		
		FLUORENE	4.0	ug/L	0.05		
		INDENO(1,2,3-cd)PYRENE	2.8	ug/L	0.05		
		NAPHTHALENE	ND	ug/L	0.05		
		PHENANTHRENE	2.4	ug/L	0.05		
		PYRENE	7.2	ug/L	0.05		
		Surrogate: 2-Fluorobiphenyl	66.8 92.8 %	%RECOVERY	50-150		
		Surrogate: Nitrobenzene-D5	120 %	%RECOVERY	50-150		
		Surrogate: p-terphenyl-D14	66.5 %	%RECOVERY	50-150		

COPY

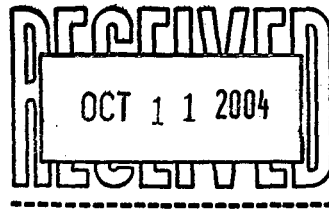
This report may not be reproduced except in full.

Authorized for Release By:

Richard D. Reid - Laboratory Director

COLUMBIA INSPECTION, INC 7133 N. Lombard, Portland, OR 97203 Phone: (503) 286-9464 Fax: (503) 286-5355 E-mail: lab@Columbiainspection.com

Koppers003035



Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

October 5, 2004

Oregon Department of Environmental Quality
Northwest Region
2020 SW Forth Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of September 2004.

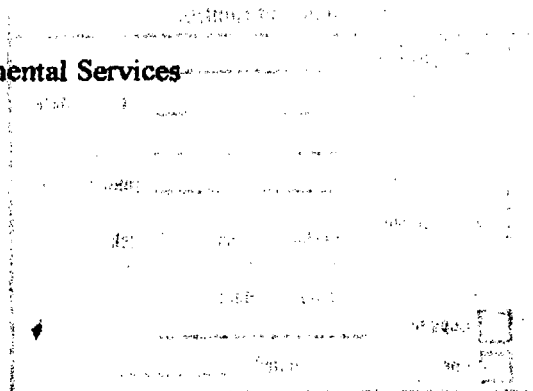
For the month, we had one regular discharge of our 220,000-gallon storage tanks. This "slug" discharge of the 220,000 gallons was pumped on September 23rd. There were no excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: turnertj@koppers.com

Sincerely,


T.J. Turner
General Foreman

CC: M. Pronold, City of Portland, Environmental Services
T. Self, KII
B. Bauman, KII



Environmental Department Document Control										
<input checked="" type="checkbox"/> Date Received	<u>10/11/09</u>									
<input checked="" type="checkbox"/> Logged:	<u>TJS</u> (initials/date)									
<input type="checkbox"/> Exceptions:	_____									
<input type="checkbox"/> Approved:	_____ (initials/date)									
<input type="checkbox"/> Distribution:	<table> <tr> <td>Leslie</td> <td>John</td> <td>Patrick</td> </tr> <tr> <td>Tim</td> <td>Traci</td> <td>Linda</td> </tr> <tr> <td>Mary</td> <td>Heather</td> <td></td> </tr> </table>	Leslie	John	Patrick	Tim	Traci	Linda	Mary	Heather	
Leslie	John	Patrick								
Tim	Traci	Linda								
Mary	Heather									
<input type="checkbox"/> Copy to:	_____									
<input type="checkbox"/> File	Date: _____									

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road

Portland, OR. 97210-3663

FACILITY NORTHWEST Terminal

LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

OR-000077-9

PERMIT NUMBER

001

DISCHARGE NUMBER

47430

101642

☐ Check here if No Discharge

NOTE: Read instructions before completing this form

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
04	09	01	04	09	30
(20-21) (22-23) (24-25)			(26-27) (28-29) (30-31)		

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (36-45)				NO. EX (52-53)	FREQUENCY OF ANALYSIS (54-58)	SAMPLE TYPE (59-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW SEE COVER LETTER	SAMPLE MEASUREMENT			CPD					0	N/A	CALC.
	PERMIT REQUIREMENT										
TEMPERATURE	SAMPLE MEASUREMENT				16.5	16.9	17.2	°C	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A				
PH	SAMPLE MEASUREMENT				6.6	6.7	6.8	SU	0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASE	SAMPLE MEASUREMENT				<2.0	<2.0	<2.0	mg/L	0	1/7	GRAB
	PERMIT REQUIREMENT				0.0	10.0	15.0				
PHENOLS	SAMPLE MEASUREMENT				<0.05	<0.05	<0.05	mg/L	0	1/30	GRAB
	PERMIT REQUIREMENT				0.0	0.5	0.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R. D. Collins

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MAINTAIN THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 16 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

T. J. Turner
T. J. Turner

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

503 286-3681

AREA CODE

NUMBER

DATE

10 05 04

YEAR MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII

Traci Self
K 1800



Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

September 2, 2004

Oregon Department of Environmental Quality
Northwest Region
2020 SW Footh Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of August 2004, including the third quarter PAH test results.

For the month, we had one regular discharge of our 220,000-gallon storage tanks. This "slug" discharge of the 220,000 gallons was pumped over two days, August 25th and 26th. There were no excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: turnertj@koppers.com

Sincerely,

A handwritten signature in black ink, appearing to read "T. J. Turner".

T. J. Turner
General Foreman

CC: M. Pronold, City of Portland, Environmental Services
T. Self, KII
B. Bauman, KII

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road

Portland, OR. 97210-3663

FACILITY NORTHWEST Terminal

LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-15)

(17-18)

OR-000077-9

PERMIT NUMBER

001

DISCHARGE NUMBER

47430

101642

☐ Check here if No Discharge

NOTE: Read Instructions before completing this form

Form Approved
OMB No. 2040-0004
Approval expires 05-31-98

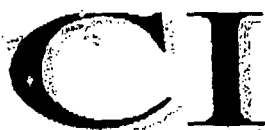
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
04	08	01	04	08	31
FROM (20-21) (22-23) (24-25)			TO (26-27) (28-29) (30-31)		

PARAMETER (32-37)	X	(3 Card Only) (48-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-45) QUALITY OR CONCENTRATION (48-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (68-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW SEE COVER LETTER	SAMPLE MEASUREMENT			GPD					0	N/A	CALC.
	PERMIT REQUIREMENT										
TEMPERATURE	SAMPLE MEASUREMENT				20.6	20.8	21.0	°C	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A				
PH	SAMPLE MEASUREMENT				6.8	7.2	7.8	SU	0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASE	SAMPLE MEASUREMENT				2.2	2.2	2.2	mg/L	0	1/7	GRAB
	PERMIT REQUIREMENT				0.0	10.0	15.0				
PHENOLS	SAMPLE MEASUREMENT				<0.05	<0.05	<0.05	mg/L	0	1/30	GRAB
	PERMIT REQUIREMENT				0.0	0.5	0.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 33 U.S.C. § 501 AND 33 U.S.C. § 1315. (Penalties under these statutes may include fines up to \$10,000 and/or imprisonment of between 6 months and 5 years.)	TELEPHONE	DATE			
R. D. Collins		T. J. Turner SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	503.286-3681	04	09	02
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MO

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII



CERTIFICATE OF ANALYSIS

CLIENT: Koppers Industries, Inc.
ATTN: T.J. Turner
7540 NW St. Helens Road
Portland OR, 97210-3663

PROJECT NAME: Quarterly Stormwater Test
PROJECT NUMBER: quarterly stormwater

PHONE: (503) 286-3881
FAX: (503) 285-2831

SUBMITTED: 08/24/04 10:55

REPORT DATE: 08/25/04 14:50

REPORT NUMBER: 4082404

PAGE: 1 OF 1

CI SAMPLE	CLIENTS ID#	DATE	TIME	MATRIX			
4082404-01	Stormwater Tanks	08/24/2004	0800	Water			
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME
4082404-01	SAMPLE ID: Stormwater Tanks						
General Bench Analysis							
O & G, TOTAL (HEM)	EPA 1864	TOTAL OIL AND GREASE	2.2	mg/L	2.0	AKH	08/25/2004 13:22
PHENOLS, TOTAL	EPA 420.1	TOTAL RECOVERABLE PHENOLICS	ND	mg/L	0.050	AKH	08/25/2004 16:03
Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy							
PNAH 625	EPA 625 (SIM)	ACENAPHTHENE	ND	ug/L	0.04	DM	08/25/2004 14:12
		ACENAPHTHYLENE	ND	ug/L	0.04		
		ANTHRACENE	ND	ug/L	0.04		
		BENZO(a)ANTHRACENE	0.7	ug/L	0.04		
		BENZO(a)PYRENE	1.8	ug/L	0.04		
		BENZO(b)FLUORANTHENE	1.5	ug/L	0.04		
		BENZO(g,h,i)PERYLENE	ND	ug/L	0.04		
		BENZO(k)FLUORANTHENE	1.6	ug/L	0.04		
		CHRYSENE	ND	ug/L	0.04		
		DIBENZO(a,h)ANTHRACENE	ND	ug/L	0.04		
		FLUORANTHENE	1.5	ug/L	0.04		
		FLUORENE	ND	ug/L	0.04		
		INDENO(1,2,3-cd)PYRENE	ND	ug/L	0.04		
		NAPHTHALENE	ND	ug/L	0.04		
		PHENANTHRENE	ND	ug/L	0.04		
		PYRENE	ND	ug/L	0.04		
		Surrogate: 2-Fluorobiphenyl	102 %	%RECOVERY	50-150		
		Surrogate: Nitrobenzene-D5	84.2 %	%RECOVERY	50-150		
		Surrogate: p-terphenyl-D14	80.2 %	%RECOVERY	50-150		

ORIGINAL

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Authorized for Release By:

Richard D. Reid - Laboratory Director

COLUMBIA INSPECTION, INC 7133 N. Lombard, Portland, OR 97203 Phone: (503) 286-9464 Fax: (503) 286-5355 E-mail: lab@ColumbiaInspection.com

Koppers003042



Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

August 3, 2004

Oregon Department of Environmental Quality
Northwest Region
2020 SW Footh Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of July 2004.

There were no discharges during the month, thus, there were no excursions.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
turnertj@koppers.com

Sincerely,

A handwritten signature in cursive script, appearing to read "T. J. Turner".

T. J. Turner
General Foreman

CC: M. Pronold, City of Portland, Environmental Services
T. Self, KII
B. Bauman, KII

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road
Portland, OR. 97210-3663

FACILITY NORTHWEST Terminal
LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

OR-000077-9

PERMIT NUMBER

001

DISCHARGE NUMBER

47430

101642

☒ Check here if No Discharge

NOTE: Read Instructions before completing this form

Form Approved
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
04	07	01	04	07	31
FROM (20-21) (22-23) (24-25)			TO (26-27) (28-29) (30-31)		

PARAMETER (32-37)		QUANTITY OR LOADING (48-53)			QUALITY OR CONCENTRATION (48-53)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (68-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW	SAMPLE MEASUREMENT			GPD				0	N/A	CALC.
SEE COVER LETTER	PERMIT REQUIREMENT									
TEMPERATURE	SAMPLE MEASUREMENT							0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A			
PH	SAMPLE MEASUREMENT							0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0			
OIL & GREASE	SAMPLE MEASUREMENT							0	1/7	GRAB
	PERMIT REQUIREMENT				0.0	10.0	15.0			
PHENOLS	SAMPLE MEASUREMENT							0	1/30	GRAB
	PERMIT REQUIREMENT				0.0	0.5	0.7			
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	<small>I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. (SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1375. (Penalties under these statutes may include fines up to \$10,000 and/or criminal imprisonment of not more than 5 years and 5 years.)</small>	TELEPHONE	DATE		
R. D. Collins		T. J. Turner	503, 286-3681	04	08 03
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE NUMBER	YEAR	NO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII



Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

July 1, 2004

Oregon Department of Environmental Quality
Northwest Region
2020 SW Footh Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

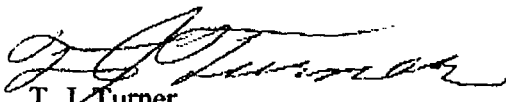
Dear Mr. Zais,

Attached please find subject report for the month of June 2004.

There were no discharges during the month, thus, there were no excursions.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
turnertj@koppers.com

Sincerely,


T. J. Turner
General Foreman

CC: M. Pronold, City of Portland, Environmental Services
T. Self, KII
B. Bauman, KII

Environmental Department Document Control										
<input checked="" type="checkbox"/> Date Received	7/1/09									
<input checked="" type="checkbox"/> Logged:	DC 7/2 (Initials/date)									
<input type="checkbox"/> Exceptions:										
<input type="checkbox"/> Approved:	(Initials/date)									
<input type="checkbox"/> Distribution:	<table> <tr> <td>Leslie</td> <td>John</td> <td>Patrick</td> </tr> <tr> <td>Tim</td> <td>Traci</td> <td>Linda</td> </tr> <tr> <td>Mary</td> <td>Heather</td> <td></td> </tr> </table>	Leslie	John	Patrick	Tim	Traci	Linda	Mary	Heather	
Leslie	John	Patrick								
Tim	Traci	Linda								
Mary	Heather									
<input type="checkbox"/> Copy to:										
<input type="checkbox"/> File	Date: _____									

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road
Portland, OR. 97210-3663

FACILITY NORTHWEST Terminal
LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OR-000077-9 PERMIT NUMBER
001 DISCHARGE NUMBER

47430

101642

Check here if No Discharge

NOTE: Read Instructions before completing this form

Form Approved
OMB No. 2040-0004
Approval expires 05-31-98

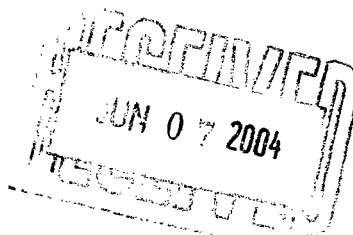
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
04	06	01	04	06	30
(20-21) (22-23) (24-25)			(26-27) (28-29) (30-31)		

PARAMETER (32-37)	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING (48-53)			QUALITY OR CONCENTRATION (48-53)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-65)	SAMPLE TYPE (66-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
FLOW SEE COVER LETTER				GPD					0	N/A	CALC.
TEMPERATURE					N/A	N/A	N/A	°C	0	1/7	GRAB
PH					6.0		9.0	SU	0	1/7	GRAB
OIL & GREASE					0.0	10.0	15.0	mg/L	0	1/7	GRAB
PHENOLS					0.0	0.5	0.7	mg/L	0	1/30	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	<small>I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEFS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 32 U.S.C. § 1921 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or imprisonment for a term of not more than 5 years.)</small>	TELEPHONE	DATE		
R. D. Collins TYPED OR PRINTED		T. J. Turner SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	503, 286-3681 AREA CODE NUMBER	04	07

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, RII; B. Bauman, RII



Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

June 2, 2004

Oregon Department of Environmental Quality
Northwest Region
2020 SW Forth Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report


Dear Mr. Zais,

Attached please find subject report for the month of May 2004.

There were no discharges during the month, thus, there were no excursions.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
turnertj@koppers.com

Sincerely,



T. J. Turner
General Foreman

CC: M. Pronold, City of Portland, Environmental Services
T. Self, KII
B. Bauman, KII

Department										
Document Control										
<input checked="" type="checkbox"/> Date Received	6/27/04									
<input checked="" type="checkbox"/> Logged:	6/27/04 (Initials/date)									
<input type="checkbox"/> Exceptions:										
<input type="checkbox"/> Approved:	(Initials/date)									
<input type="checkbox"/> Distribution:	<table> <tr> <td>Leslie</td> <td>John</td> <td>Patrick</td> </tr> <tr> <td>Tim</td> <td>Traci</td> <td>Linda</td> </tr> <tr> <td>Mary</td> <td>Heather</td> <td></td> </tr> </table>	Leslie	John	Patrick	Tim	Traci	Linda	Mary	Heather	
Leslie	John	Patrick								
Tim	Traci	Linda								
Mary	Heather									
<input type="checkbox"/> Copy to:										
<input type="checkbox"/> File	Date									

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME Koppers Industries, Inc.
ADDRESS 7540 NW Saint Helens Road
Portland, OR. 97210-3663

FACILITY LOCATION Northwest Terminal
Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OR-000077-9
PERMIT NUMBER
001
DISCHARGE NUMBER

47430

101642

☒ Check here if No Discharge

NOTE: Read Instructions before completing this form

Form Approved
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD
FROM 04 05 01 TO 04 05 31
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

PARAMETER (32-37)	SAMPLE MEASUREMENT PERMIT REQUIREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
FLOW SEE COVER LETTER				GPD					0	N/A	CALC.
TEMPERATURE					N/A	N/A	N/A	°C	0	1/7	GRAB
PH					6.0		9.0	SU	0	1/7	GRAB
OIL & GREASE					0.0	10.0	15.0	mg/L	0	1/7	GRAB
PHENOLS					0.0	0.5	0.7	mg/L	0	1/30	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY KNOWLEDGE OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1910. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of 5 years and 5 years.)	TELEPHONE	DATE			
R. D. Collins		503, 286-3681	04 06 02			
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII



Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

May 4, 2004

Oregon Department of Environmental Quality
Northwest Region
2020 SW Forth Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of April 2004, including the second quarter PAH results.

For the month, we had one regular discharge of our 220,000-gallon storage tanks, for a total discharge of 220,000 gallons. This "slug" discharge of 220,000 gallons each was pumped on April 21st and 26th. There were no excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: turnertj@koppers.com

Sincerely,

A handwritten signature in black ink, appearing to read "T. J. Turner". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

T. J. Turner
General Foreman

CC: M. Pronold, City of Portland, Environmental Services
T. Self, KII
B. Bauman, KII

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME Koppers Industries, Inc.
ADDRESS 7540 NW Saint Helens Road
Portland, OR. 97210-3663
FACILITY LOCATION Northwest Terminal
Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OR-000077-9
PERMIT NUMBER
001
DISCHARGE NUMBER

47430

101642

☐ Check here if No Discharge

NOTE: Read instructions before completing this form

MONITORING PERIOD
FROM YEAR MO DAY TO YEAR MO DAY
04 04 01 04 04 30
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

PARAMETER (32-37)	SAMPLE MEASUREMENT (38-40)	QUANTITY OR LOADING (41-43)			QUALITY OR CONCENTRATION (44-46)			UNITS (47-49)	NO. EX (50-52)	FREQUENCY OF ANALYSIS (53-55)	SAMPLE TYPE (56-58)
		AVERAGE (41-42)	MAXIMUM (43-44)	UNITS (45-46)	MINIMUM (44-45)	AVERAGE (46-47)	MAXIMUM (48-49)				
FLOW SEE COVER LETTER	PERMIT REQUIREMENT			GPD					0	N/A	CALC.
TEMPERATURE	SAMPLE MEASUREMENT				11.9	12.3	12.7	°C	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A				
PH	SAMPLE MEASUREMENT				7.0	7.1	7.2	SU	0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASE	SAMPLE MEASUREMENT				<2.0	<2.0	<2.0	mg/L	0	1/7	GRAB
	PERMIT REQUIREMENT				0.0	10.0	15.0				
PHENOLS	SAMPLE MEASUREMENT				<0.05	<0.05	<0.05	mg/L	0	1/30	GRAB
	PERMIT REQUIREMENT				0.0	0.5	0.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER R. D. Collins TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT THE DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 19 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT T. J. Turner	TELEPHONE 503 286-3681	DATE 04 05 04
---	---	--	---------------------------	------------------

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII



CERTIFICATE OF ANALYSIS

CLIENT: Koppers Industries, Inc.
ATTN: Amos Kameron
7540 NW St. Helens Road
Portland OR, 97210-3683

PROJECT NAME: Quarterly Stormwater Test

PROJECT NUMBER: quarterly stormwater

PHONE: (503) 286-3681

FAX: (503) 286-2831

SUBMITTED: 04/20/04 08:35

REPORT DATE: 04/22/04 10:49

REPORT NUMBER: 4042002

PAGE: 1 OF 1

CI SAMPLE	CLIENTS ID#	DATE	TIME	MATRIX
4042002-01	Stormwater Tanks	04/20/2004	0820	Water

SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME
4042002-01	SAMPLE ID: Stormwater Tanks						
General Bench Analysis							
O & G, TOTAL (HEM)	EPA 1604	TOTAL OIL AND GREASE	ND	mg/L	2.0	AKH	04/21/2004 11:04
PHENOLS, TOTAL	EPA 420.1	TOTAL RECOVERABLE PHENOLICS	0.15	mg/L	0.050	AKH	04/21/2004 10:58
Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy							
PNAH 625	EPA 625 (BIM)	ACENAPHTHENE	4.8	ug/L	0.03	ZZZ	04/20/2004 20:43
		ACENAPHTHYLENE	2.7	ug/L	0.03		
		ANTHRACENE	4.5	ug/L	0.03		
		BENZO(a)ANTHRACENE	5.8	ug/L	0.03		
		BENZO(a)PYRENE	12.1	ug/L	0.03		
		BENZO(b)FLUORANTHENE	10.5	ug/L	0.03		
		BENZO(g,h,i)PERYLENE	12.0	ug/L	0.03		
		BENZO(k)FLUORANTHENE	7.5	ug/L	0.03		
		CHRYSENE	5.6	ug/L	0.03		
		DIBENZO(a,h)ANTHRACENE	8.9	ug/L	0.03		
		FLUORANTHENE	9.9	ug/L	0.03		
		FLUORENE	2.7	ug/L	0.03		
		INDENO(1,2,3-cd)PYRENE	13.1	ug/L	0.03		
		NAPHTHALENE	1.4	ug/L	0.03		
		PHENANTHRENE	2.8	ug/L	0.03		
		PYRENE	8.7	ug/L	0.03		
		Surrogate: 2-Fluorobiphenyl	112.8	62.0 %	%RECOVERY	50-150	
		Surrogate: Nitrobenzene-D5		60.3 %	%RECOVERY	50-150	
		Surrogate: p-tolophenyl-D14		94.3 %	%RECOVERY	50-150	

COPY

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Authorized for Release By:

Richard D. Reid - Laboratory Director

COLUMBIA INSPECTION, INC. 7133 N. Lombard, Portland, OR 97203 Phone: (503) 286-6464 Fax: (503) 286-3355 E-mail: info@columbiainsp.com

**Koppers Inc.****Carbon Materials and Chemicals**

7540 NW Saint Helens Road

Portland, OR 97210-3663

Tel 503 286 3681

Fax 503 285 2831

www.koppers.com

April 2, 2004

Oregon Department of Environmental Quality
Northwest Region
2020 SW Forth Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of March 2004.

For the month, we had one regular discharge of our 220,000-gallon storage tanks, for a total discharge of 220,000 gallons. This "slug" discharge of 220,000 gallons each was pumped on March 25th and 26th. There were no excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
turnertj@koppers.com

Sincerely,

A handwritten signature in black ink, appearing to read "T. J. Turner". The signature is fluid and cursive, with a large, stylized 'T' and 'J'.

T. J. Turner
General Foreman

CC: M. Pronold, City of Portland, Environmental Services
T. Self, KII
B. Bauman, KII

Environmental Department Document Control											
<input checked="" type="checkbox"/>	Date Received	4/2/04									
<input checked="" type="checkbox"/>	Logged:	<i>[Signature]</i> 4/2 (initials/date)									
<input type="checkbox"/>	Exceptions:										
<input type="checkbox"/>	Approved:	(initials/date)									
<input type="checkbox"/>	Distribution:	<table border="0"> <tr> <td>Lester</td> <td>John</td> <td>Patrick</td> </tr> <tr> <td>Tim</td> <td>Tracey</td> <td>Linda</td> </tr> <tr> <td>M. Lee</td> <td>Stephen</td> <td></td> </tr> </table>	Lester	John	Patrick	Tim	Tracey	Linda	M. Lee	Stephen	
Lester	John	Patrick									
Tim	Tracey	Linda									
M. Lee	Stephen										
<input type="checkbox"/>	Copy to:										
<input type="checkbox"/>	File	Date: _____									

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road
Portland, OR. 97210-3663

FACILITY Northwest Terminal
LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OR-000077-9
PERMIT NUMBER

001
DISCHARGE NUMBER

47430

101642

☐ Check here if No Discharge

NOTE: Read Instructions before completing this form

Form Approved
OMB No. 2040-0004
Approval expires 06-31-98

MONITORING PERIOD
FROM YEAR MO DAY TO YEAR MO DAY
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)
04 03 01 04 03 31

PARAMETER (32-37)	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING (48-53)			QUALITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
FLOW SEE COVER LETTER				GPD					0	N/A	CALC.
TEMPERATURE					12.9	13.1	13.2		0	1/7	GRAB
					N/A	N/A	N/A				
PH					7.1	7.2	7.2		0	1/7	GRAB
					6.0		9.0				
OIL & GREASE					4.5	4.5	4.5		0	1/7	GRAB
					0.0	10.0	15.0	mg/L			
PHENOLS					0.11	0.11	0.11		0	1/30	GRAB
					0.0	0.5	0.7	mg/L			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY KNOWLEDGE OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1312. (Penalties under these statutes may include fines up to \$50,000 and/or imprisonment of between 6 months and 5 years.)	TELEPHONE	DATE			
R. D. Collins		T. J. Turner	503, 286-3681	04	04	02
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII



Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

March 2, 2004

Oregon Department of Environmental Quality
Northwest Region
2020 SW Footh Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of February 2004.

For the month, we had three regular discharges of our 220,000-gallon storage tanks, for a total discharge of 660,000 gallons. These "slug" discharges of 220,000 gallons each were pumped on February 6th, 17th and 27th. There were no excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
turnertj@koppers.com

Sincerely,

A handwritten signature in dark ink, appearing to read "T. J. Turner".

T. J. Turner
General Foreman

CC: M. Pronold, City of Portland, Environmental Services
T. Self, KII
B. Bauman, KII

Environmental Department Document Control	
<input checked="" type="checkbox"/> Date Received	3/2/04
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<input type="checkbox"/> Distribution:	Leslie John Patrick Tina Sandra Mr. Boer
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<input type="checkbox"/> File	

Mar. 02 2004 12:56PM P2

FAX NO. : 5032852831

FROM : KOPPERS

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road
Portland, OR. 97210-3663FACILITY NORTHWEST Terminal
LOCATION Multnomah CountyNATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)OR-000077-9
PERMIT NUMBER001
DISCHARGE NUMBER

47430

101642

☐ Check here if No Discharge

NOTE: Read instructions before completing this form

Form Approved
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
04	02	01	04	02	29
FROM (20-21) (22-23) (24-25)			TO (26-27) (28-29) (30-31)		

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (48-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (54-58)	SAMPLE TYPE (59-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW SEE COVER LETTER	SAMPLE MEASUREMENT			CPD				0	N/A	CALC.
	PERMIT REQUIREMENT									
TEMPERATURE	SAMPLE MEASUREMENT				9.2	9.9	10.5	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A			
PH	SAMPLE MEASUREMENT				7.2	7.3	7.4	0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0			
OIL & GREASE	SAMPLE MEASUREMENT				2.0	4.7	8.7	0	1/7	GRAB
	PERMIT REQUIREMENT				0.0	10.0	15.0			
PHENOLS	SAMPLE MEASUREMENT				0.11	0.11	0.11	0	1/30	GRAB
	PERMIT REQUIREMENT				0.0	0.5	0.7			
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1918. (Penalties under these statutes may include fines up to \$70,000 and/or criminal imprisonment of between 6 months and 5 years.)	TELEPHONE	DATE			
R. D. Collins		503, 286-3681	04	03	02	
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII

Koppers003059



Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

January 6, 2004

Oregon Department of Environmental Quality
Northwest Region
2020 SW Forth Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of December 2003.

For the month, we had six regular discharges of our 220,000-gallon storage tanks, for a total discharge of 1,320,000 gallons. These "slug" discharges of 220,000 gallons each were pumped on December 5th, 12th, 15th, 18th, 30th and 31st.

As you know, we had a high oil and grease test result early this month. Our first sample came back with an O&G of 25.3 mg/l. When Columbia Inspection reported the result they commented that the oil was a "clear amber brown", typical of motor oil, atypical of what they normally see from our facility. We immediately did an inspection of the plant looking for anything that could be the cause of this high test result. We found nothing obvious and took a second sample for analysis. Later that afternoon, the results of this sample came back with a result of 11.1 mg/l.

The MSDS for the heat transfer oil that we use in our two hot oil heating systems describes this oil as a "clear liquid, light yellow color". Due to the similarity of this description to what the lab reported, we took a more in depth look at our two hot oil heating areas. The only thing that we found that could be an issue, was the fact that we have a rain drain in each of the two hot oil containment areas, that lets the storm water drain into the tank farm, where all of our storm water is collected in to our storage tanks, after it goes through the oil water separator. These drains have valves at the end of each line that is closed to about the 95% level. Our thinking being that should we have a breach in the heat transfer oil system within the containment, these valves could be closed completely, keeping as much of the breached oil in containment and out of the tank farm.

Environmental Department Document Control										
<input checked="" type="checkbox"/> Date Received	1/9/04									
<input checked="" type="checkbox"/> Logged:	08 c/12 (initials/date)									
<input type="checkbox"/> Exceptions:										
<input type="checkbox"/> Approved:	(initials/date)									
<input type="checkbox"/> Distribution:	<table> <tr> <td>Leslie</td> <td>John</td> <td>Patrick</td> </tr> <tr> <td>Tim</td> <td>Chris</td> <td>Linda</td> </tr> <tr> <td>Mary</td> <td>Wendy</td> <td></td> </tr> </table>	Leslie	John	Patrick	Tim	Chris	Linda	Mary	Wendy	
Leslie	John	Patrick								
Tim	Chris	Linda								
Mary	Wendy									
<input type="checkbox"/> Copy to:										
<input type="checkbox"/> File	Date: _____									

Page 2

There is a normal amount of leakage that occurs at the various pumps and valves used with in these hot oil heating system areas, but we have never thought it to be sufficient enough to be a problem. However, we decided that we should try to eliminate this as a possible source of the problem and have taken two 55 gallon drums and placed them under the drains down in the tank farm. These drums were drilled with holes in the bottom and then lined with absorbent pads to correct any of this oil that is coming from the containment areas before it enters the tank farm. These drums have now become a part of our regular plant inspection program and the pads will be changed, as needed.

We also will be adding a "wire-netted-holder" to place absorbent pads into and then place 2 or 3 of these holders in the last chamber of the oil water separator, for additional oil collection. These will also be inspected on a regular basis.

With the first two results in hand and our planned items of possible remedy, I called you the morning of December 2 and described all of the above. You asked that we take a third sample for further review. This came back as "non-detect". You then indicated that you were not concerned with this material and that we could go ahead with the discharge it to our outfall and that there would not be an NOV issued.

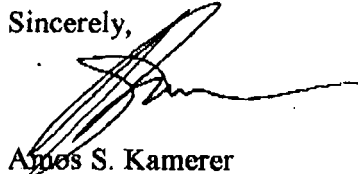
As we also copy the City of Portland, Dept. of Environmental Services on our DMR's, I called Michael Pronold and explained all of the above to him. Michael agreed with your assessment and we commenced with the discharge, at that time.

Also, for what it is worth; we had three additional O&G samples over the rest of the month and the results for those were 4.1, N.D. and 3.3 mg/l. So, why we had the one high one result, is unclear to me.

I would like to thank both you and Michael for your help and understanding in working with me, in this regard.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: kamereras@koppers.com

Sincerely,



Amos S. Kamerer

CC: M. Pronold, City of Portland, Environmental Services

T. Self, KII

B. Bauman, KII

PERMITTEE NAME/ADDRESS (Include Facility Name, Location & Different)

NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road
Portland, OR. 97210-3663

FACILITY NORTHWEST Terminal
LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-28)

OR-000077-9

PERMIT NUMBER

001

DISCHARGE NUMBER

47430

101642

☐ Check here if No Discharge

NOTE: Read instructions before completing this form

Form Approved
OMB No. 2040-0004
Approval expires 05-31-88

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
03	12	01	03	12	31
FROM (20-21) (22-23) (24-25)			TO (26-27) (28-29) (30-31)		

PARAMETER (32-37)	X	(3 Card Only) (46-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (54-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW SEE COVER LETTER	SAMPLE MEASUREMENT			GPD					0	N/A	CALC.
	PERMIT REQUIREMENT										
TEMPERATURE	SAMPLE MEASUREMENT				6.0	8.5	10.5	°C	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A				
PB	SAMPLE MEASUREMENT				7.0	7.2	7.4	SU	0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASE	SAMPLE MEASUREMENT				<2.0	7.3	25.3	mg/L	0	1/7	GRAB
	PERMIT REQUIREMENT				0.0	10.0	15.0				
PHENOLS	SAMPLE MEASUREMENT				<0.05	<0.05	<0.05	mg/L	0	1/30	GRAB
	PERMIT REQUIREMENT				0.0	0.5	0.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	<small>I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. § 1001 AND 32 U.S.C. § 10112. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 3 years.)</small>	TELEPHONE	DATE		
R. D. Collins		503 286-3681	04	01	06
TYPED OR PRINTED		AREA CODE	NUMBER	YEAR	MO

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

A. S. Kaperer
SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII

12/03/2003

15:21

NO.835 D001

503285 31

FROM : KOPPERS

FAX NO. : 5032852831

Dec. 03 2003 11:40AM P1



Koppers Inc.

Carbon Materials and Chemicals

7540 NW Saint Helens Road

Portland, OR 97210-3663

Tel 503 286 3681

Fax 503 285 2831

www.koppers.com

December 3, 2003

Oregon Department of Environmental Quality
Northwest Region
2020 SW Footh Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of November 2003.

For the month, we had two regular discharges of our 220,000-gallon storage tanks, for a total discharge of 440,000 gallons. These "slug" discharges of 220,000 gallons each was pumped on November 14th and 20th, 2003. There were no excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: kamereras@koppers.com

Sincerely,

A handwritten signature in black ink, appearing to read "Amos S. Kamerer". The signature is fluid and stylized, with a long horizontal line extending to the right.

Amos S. Kamerer

CC: M. Pronold, City of Portland, Environmental Services

T. Self, KII

B. Bauman, KII

Koppers003064

Environmental Department Document Control			
<input checked="" type="checkbox"/>	Date Received	12/3/03	
<input checked="" type="checkbox"/>	Logged:	<i>[Signature]</i> 12/3	(initials/date)
<input type="checkbox"/>	Exceptions:		
<input type="checkbox"/>	Approved:		(initials/date)
<input type="checkbox"/>	Distribution:	Leslie John Patrick Tim Tracy Linda Mary Heather	
<input type="checkbox"/>	Copy to:		
<input type="checkbox"/>	File		

NO. 835 0002

Dec. 03 2003 11:40AM P2

FAX NO. : 5032852831

12/03/2003 15:21

FROM : KOPPERS

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME Koppers Industries, Inc.
ADDRESS 7540 NW Saint Helens Road
Portland, OR. 97210-3663
FACILITY LOCATION Northwest Terminal
Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-19)OR-000077-9
PERMIT NUMBER001
DISCHARGE NUMBER

47430

101642

☐ Check here if No Discharge

NOTE: Read instructions before completing this form

Form Approved
OMB No. 2040-0004
Approval expires 05-31-98

PARAMETER (32-37)	X	QUANTITY OR LOADING (45-53)			QUALITY OR CONCENTRATION (48-53)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE (45-53)	MAXIMUM (54-61)	UNITS	MINIMUM (38-45)	AVERAGE (48-53)	MAXIMUM (54-61)					
FLOW SEE COVER LETTER	SAMPLE MEASUREMENT			GPD					0	N/A	CALC.	
	PERMIT REQUIREMENT											
TEMPERATURE	SAMPLE MEASUREMENT				9.7	11.3	12.6	°C	0	1/7	GRAB	
	PERMIT REQUIREMENT				N/A	N/A	N/A					
PH	SAMPLE MEASUREMENT				6.4	7.4	8.6	SU	0	1/7	GRAB	
	PERMIT REQUIREMENT				6.0		9.0					
OIL & GREASE	SAMPLE MEASUREMENT				<2.0	2.7	5.3	mg/L	0	1/7	GRAB	
	PERMIT REQUIREMENT				0.0	10.0	15.0					
PHENOLS	SAMPLE MEASUREMENT				0.11	0.11	0.11	mg/L	0	1/30	GRAB	
	PERMIT REQUIREMENT				0.0	0.5	0.7					
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION IS LIMITED TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 16 U.S.C. § 1361 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$75,000 and/or maximum imprisonment of between 6 months and 5 years.)										
R. D. Collins		A. S. Kamerer SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT							TELEPHONE 503 286-3681		DATE 03 12 03	
TYPED OR PRINTED		AREA CODE							NUMBER		YEAR NO DAY	

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII



Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

November 4, 2003

Oregon Department of Environmental Quality
Northwest Region
2020 SW FORTH Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

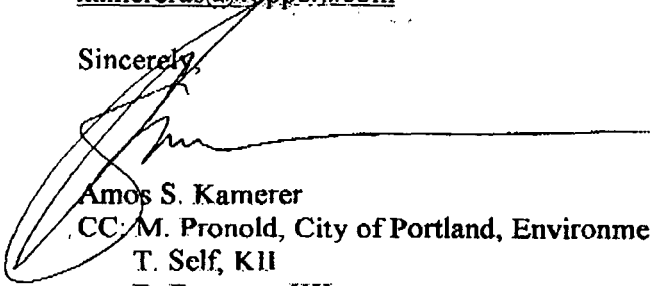
Dear Mr. Zais,

Attached please find subject report for the month of October 2003, including the 4th quarter PAH test results.

We had one regular discharge of our 220,000-gallon storage tanks. This "slug" discharge of 220,000 gallons was pumped on October 15, 2003. There were no excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: kamereras@koppers.com

Sincerely,



Amos S. Kamerer

CC: M. Pronold, City of Portland, Environmental Services
T. Self, KII
B. Bauman, KII

Environmental Department Document Control											
<input checked="" type="checkbox"/> Date Received	11/4/03										
<input checked="" type="checkbox"/> Logged	[Signature] 11/5/03 (Initials/date)										
<input type="checkbox"/> Exceptions:	_____										
<input type="checkbox"/> Approved:	_____ (Initials/date)										
<input type="checkbox"/> Distribution:	<table border="0"> <tr> <td>Leslie</td> <td>John</td> <td>Patricia</td> </tr> <tr> <td>Tim</td> <td>Traci</td> <td>Linda</td> </tr> <tr> <td>Mary</td> <td>Heather</td> <td></td> </tr> </table>		Leslie	John	Patricia	Tim	Traci	Linda	Mary	Heather	
Leslie	John	Patricia									
Tim	Traci	Linda									
Mary	Heather										
<input type="checkbox"/> Comments:	_____										

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road

Portland, OR. 97210-3663

FACILITY NORTHWEST Terminal

LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

OR-000077-9

PERMIT NUMBER

001

DISCHARGE NUMBER

47430

101642

☐ Check here if No Discharge

NOTE: Read instructions before completing this form

Form Approved
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
03 10 01 03 10 31
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

PARAMETER (32-37)	X	(3 Card Only) (46-53)			(4 Card Only) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-65)	SAMPLE TYPE (66-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW SEE COVER LETTER	SAMPLE MEASUREMENT			GPD					0	N/A	CALC.
	PERMIT REQUIREMENT										
TEMPERATURE	SAMPLE MEASUREMENT				13.8	14.1	14.4	°C	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A				
PH	SAMPLE MEASUREMENT				7.0	7.1	7.1	SU	0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASE	SAMPLE MEASUREMENT				<2.0	<2.0	<2.0	mg/L	0	1/7	GRAB
	PERMIT REQUIREMENT				0.0	10.0	15.0				
PHENOLS	SAMPLE MEASUREMENT				<0.05	<0.05	<0.05	mg/L	0	1/30	GRAB
	PERMIT REQUIREMENT				0.0	0.5	0.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R. D. Collins

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EXPLORE THE INFORMATION SUBMITTED BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1375. (Penalties under these statutes may include fines up to \$50,000 or maximum imprisonment of 5 years or 6 months and 5 years.)

S. Kamberer

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

503.286-3681

AREA CODE NUMBER

DATE

03 11 04

YEAR MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII



CERTIFICATE OF ANALYSIS

CLIENT: Koppers Industries, Inc.
7540 NW St. Helens Road
Portland OR, 97210-3863
ATTN: Amos Kamerer

PROJECT NAME: Quarterly Stormwater Test
PROJECT NUMBER: quarterly stormwater

PHONE: (503) 286-3681
FAX: (503) 285-2831

SUBMITTED: 10/13/03 09:25

REPORT DATE: 10/15/03 10:10

REPORT NUMBER: 3101301

PAGE: 1 OF 1

CI SAMPLE	CLIENTS ID#	DATE	TIME	MATRIX
3101301-01	Stormwater Tanks	10/13/2003	0800	Water

SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME
3101301-01	SAMPLE ID: Stormwater Tanks						
General Bench Analysis							
O & G, TOTAL (HEM)	EPA 1664	TOTAL OIL AND GREASE	ND	mg/L	2.0	PA	10/14/2003 13:08
PHENOLS, TOTAL	EPA 420.1	TOTAL RECOVERABLE PHENOLICS	ND	mg/L	0.050	RGR	10/13/2003 16:05

Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy

PNAH 625	EPA 625 (SIM)	ACENAPHTHENE	5.6	ug/L	0.04	ZZZ	10/13/2003 19:56
		ACENAPHTHYLENE	0.9	ug/L	0.04		
		ANTHRACENE	3.8	ug/L	0.04		
		BENZO(a)ANTHRACENE	3.2	ug/L	0.04		
		BENZO(a)PYRENE	5.1	ug/L	0.04		
		BENZO(b)FLUORANTHENE	5.8	ug/L	0.04		
		BENZO(g,h,i)PERYLENE	4.2	ug/L	0.04		
		BENZO(k)FLUORANTHENE	3.7	ug/L	0.04		
		CHRYSENE	4.2	ug/L	0.04		
		DIBENZO(a,h)ANTHRACENE	1.0	ug/L	0.04		
		FLUORANTHENE	8.2	ug/L	0.04		
		FLUORENE	4.3	ug/L	0.04		
		INDENO(1,2,3-cd)PYRENE	3.6	ug/L	0.04		
		NAPHTHALENE	0.6	ug/L	0.04		
		PHENANTHRENE	2.9	ug/L	0.04		
		PYRENE	7.5	ug/L	0.04		
		Surrogate: 2-Fluorobiphenyl	66.7 %	%RECOVERY	50-150		
		Surrogate: Nitrobenzene-D5	51.5 %	%RECOVERY	50-150		
		Surrogate: p-terphenyl-D14	76.8 %	%RECOVERY	50-150		

COPY

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Authorized for Release By:

Richard D. Reid - Laboratory Director

COLUMBIA INSPECTION, INC 7133 N. Lombard, Portland, OR 97203 Phone: (503) 286-9484 Fax: (503) 286-5355 E-mail: lab@ColumbiaInspection.com



Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

October 1, 2003

Oregon Department of Environmental Quality
Northwest Region
2020 SW Forth Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of September 2003, including the 3rd quarter PAH test results.

We had one regular discharge of our 220,000-gallon storage tanks. This "slug" discharge of 220,000 gallons was pumped on September 14, 2003.

As you know, we had what I believe to be an anomaly with the oil and grease sampling of this storm water. Due to the extremely dry summer that we have had, this was the first sample taken from our storage tanks since May 8th, or for a full 4 month period. The rain that we had on September the 7th and the early morning hours of the 8th was very heavy. I believe that we had a big wash of street oily water across Hwy. 30 and then across the PWRR railroad tracks and into our tank farm, causing the higher level of oil and grease.

Regardless, our 1st sample taken on the 8th tested at 33.3 mg/L, which was very high and very unusual. A 2nd sample was taken on the 9th from the same sample point and via the same sampling method and it tested at 12.8 mg/L. At your suggestion, a 3rd sample was taken on the 10th, again from the same sample point and via the same method, this tested at <2.0 mg/L, or non-detect.

After conversations with both yourself and Michael Pronold, City of Portland, Environmental Services, we all concluded that this was an anomaly and that we could proceed with the discharge via our normal outfall and that no Notice of Violation would be issued.

Environmental Department Document Control	
<input checked="" type="checkbox"/> Date Received	10/1/03
<input checked="" type="checkbox"/> Logged	2-0-03 (initials/date)
<input checked="" type="checkbox"/> Executions:	2-0-03 (initials/date)
<input type="checkbox"/> Approved:	
<input type="checkbox"/> Distribution:	Leslie John Patrick Tim Brian Linda Rick Roger
<input type="checkbox"/> Copy to:	
<input type="checkbox"/> File:	date



Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

Page 2

I personally would like to thank you both for your understanding in this matter. We at Koppers take these types of matters seriously and it is nice to know that we can have this kind of dialog when something unusual develops.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
kamereras@koppers.com

Sincerely,

A handwritten signature in black ink, appearing to read "Amos S. Kameron". The signature is stylized with a large, sweeping initial 'A' and a long horizontal stroke extending to the right.

Amos S. Kameron
CC. M. Pronold, City of Portland, Environmental Services
T. Self, KII
B. Bauman, KII

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road

Portland, OR. 97210-3663

FACILITY NORTHWEST Terminal

LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-19)

(17-18)

OR-000077-9

PERMIT NUMBER

001

DISCHARGE NUMBER

47430

101642

☐ Check here if No Discharge

NOTE: Read Instructions before completing this form

Form Approved,
OMB No. 2040-0004
Approval expires 05-31-98

PARAMETER (32-37)	SAMPLE MEASUREMENT (46-53)	QUANTITY OR LOADING (54-61)			QUALITY OR CONCENTRATION (62-69)			NO. EX. (70-73)	FREQUENCY OF ANALYSIS (74-77)	SAMPLE TYPE (78-81)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
FLOW SEE COVER LETTER	PERMIT REQUIREMENT			GPD					0	N/A	CALC.
TEMPERATURE	SAMPLE MEASUREMENT				18.1	19.6	21.9		0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A				
PH	SAMPLE MEASUREMENT				7.1	7.3	7.5		0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASE	SAMPLE MEASUREMENT				<2.0	12.8	33.3		0	1/7	GRAB
	PERMIT REQUIREMENT				0.0	10.0	15.0				
PHENOLS	SAMPLE MEASUREMENT				<0.05	<0.05	<0.05		0	1/30	GRAB
	PERMIT REQUIREMENT				0.0	0.5	0.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R. D. Collins

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 40 U.S.C. § 801 AND 33 U.S.C. § 810. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of 10 years if months and 5 years.)

A. E. Kameroner

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

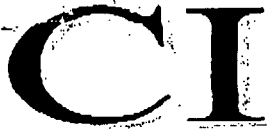
503.286-3681

DATE

03 10 01

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII



CERTIFICATE OF ANALYSIS

CLIENT: Koppers Industries, Inc.
7540 NW St. Helens Road
Portland OR, 97210-3863
ATTN: Amos Kamerer

PROJECT NAME: Quarterly Stormwater Test

PROJECT NUMBER: quarterly stormwater

PHONE: (503) 286-3681
FAX: (503) 285-2831

SUBMITTED: 09/08/03 15:10

REPORT DATE: 09/10/03 11:26

REPORT NUMBER: 3090806

PAGE: 1 OF 1

C\ SAMPLE	CLIENTS ID#	DATE	TIME	MATRIX			
3090806-01	Stormwater Tanks	09/08/2003	1100	Water			
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME
3090806-01 SAMPLE ID: Stormwater Tanks							
General Bench Analysis							
O & G, TOTAL (HEM) EPA 1664		TOTAL OIL AND GREASE	33.3	mg/L	2.0	DR	09/09/2003 11:35
PHENOLS, TOTAL EPA 420.1		TOTAL RECOVERABLE PHENOLICS	ND	mg/L	0.050	RGR	09/08/2003 17:09
Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy							
PNAH 825	EPA 825 (SIM)	ACENAPHTHENE	ND	ug/L	0.04	DM	09/09/2003 15:08
		ACENAPHTHYLENE	ND	ug/L	0.04		
		ANTHRACENE	0.7	ug/L	0.04		
		BENZO(a)ANTHRACENE	0.8	ug/L	0.04		
		BENZO(a)PYRENE	2.0	ug/L	0.04		
		BENZO(b)FLUORANTHENE	2.3	ug/L	0.04		
		BENZO(g,h,i)PERYLENE	2.7	ug/L	0.04		
		BENZO(k)FLUORANTHENE	1.4	ug/L	0.04		
		CHRYSENE	1.1	ug/L	0.04		
		DIBENZO(a,h)ANTHRACENE	4.2	ug/L	0.04		
		FLUORANTHENE	1.2	ug/L	0.04		
		FLUORENE	ND	ug/L	0.04		
		INDENO(1,2,3-cd)PYRENE	2.2	ug/L	0.04		
		NAPHTHALENE	ND	ug/L	0.04		
		PHENANTHRENE	0.4	ug/L	0.04		
		PYRENE	1.0	ug/L	0.04		
		Surrogate: 2-Fluorobiphenyl	71.0 %	%RECOVERY	50-150		
		Surrogate: Nitrobenzene-D5	65.0 %	%RECOVERY	50-150		
		Surrogate: p-torphenyl-D14	59.6 %	%RECOVERY	50-150		

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Authorized for Release By:

Richard D. Reid - Laboratory Director

COLUMBIA INSPECTION, INC 7133 N. Lombard, Portland, OR 97203 Phone: (503) 286-9484 Fax: (503) 286-5355 E-mail: lab@columbiainspection.com

Koppers003075



Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

September 3, 2003

Oregon Department of Environmental Quality
Northwest Region
2020 SW FORTH Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of August 2003.

There were no discharges during the month; thus, there were excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
kamereras@koppers.com

Sincerely,



Amos S. Kamerer

CC: M. Pronold, City of Portland, Environmental Services

T. Self, KII

B. Bauman, KII

Environmental Department
Document Control

<input checked="" type="checkbox"/>	Date Received	9/10/03	
<input checked="" type="checkbox"/>	Logged:	10/29/03	(initials/date)
<input type="checkbox"/>	Exceptions:		
<input type="checkbox"/>	Approved:		(initials/date)
<input type="checkbox"/>	Distribution:	Leslie John Patrick Tim Traci Linda Mary Heather	
<input type="checkbox"/>	Copy to:		
<input type="checkbox"/>	File	Date:	

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road

Portland, OR. 97210-3663

FACILITY Northwest Terminal

LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-19)

(17-19)

OR-000077-9

PERMIT NUMBER

001

DISCHARGE NUMBER

47430

I01642

☒ Check here if No Discharge

NOTE: Read instructions before completing this form

Form Approved
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD							
YEAR	MO	DAY	TO	YEAR	MO	DAY	
03	08	01	TO	03	08	31	
(20-21)		(22-23) (24-25)		(26-27)		(28-29) (30-31)	

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (48-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE				MAXIMUM
FLOW SEE COVER LETTER	SAMPLE MEASUREMENT			GPD								0	N/A	CALC.
	PERMIT REQUIREMENT													
TEMPERATURE	SAMPLE MEASUREMENT											0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A							
PH	SAMPLE MEASUREMENT											0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0							
OIL & GREASE	SAMPLE MEASUREMENT											0	1/7	GRAB
	PERMIT REQUIREMENT				0.0	10.0	15.0							
PHENOLS	SAMPLE MEASUREMENT											0	1/30	GRAB
	PERMIT REQUIREMENT				0.0	0.5	0.7							
	SAMPLE MEASUREMENT													
	PERMIT REQUIREMENT													
	SAMPLE MEASUREMENT													
	PERMIT REQUIREMENT													

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED BASED ON MY KNOWLEDGE AND BELIEF. TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1918. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE	DATE			
R. D. Collins		503, 286-3681	03	09	03	
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII



Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

August 4, 2003

Oregon Department of Environmental Quality
Northwest Region
2020 SW Forth Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of July 2003.

There were no discharges during the month; thus, there were excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
kamereras@koppers.com

Sincerely,



Agnos S. Kameron

C.C. M. Pronold, City of Portland, Environmental Services

T. Self, KII

B. Bauman, KII

Koppers003080

FROM : KOPPERS

FAX NO. : 5032852831

FROM : KOPPERS

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME **Koppers Industries, Inc.**
ADDRESS **7540 NW Saint Helens Road**
Portland, OR. 97210-3663
FACILITY LOCATION **Northwest Terminal**
Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-18) (17-19)

OR-000077-9
PERMIT NUMBER

001
DISCHARGE NUMBER

47430

101642

☒ Check Here If No Discharge

NOTE: Read Instructions before completing this form

Form Approved
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD
FROM YEAR MO DAY TO YEAR MO DAY
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)
03 07 01 03 07 31

PARAMETER (32-37)	X	(3 Card Only) (46-53) QUANTITY OR LOADING			(4 Card Only) (38-45) QUALITY OR CONCENTRATION				NO EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (69-70)		
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS					
FLOW SEE COVER LETTER	SAMPLE MEASUREMENT			GPD					0	N/A	CALC.		
	PERMIT REQUIREMENT												
TEMPERATURE	SAMPLE MEASUREMENT							°C	0	1/7	GRAB		
	PERMIT REQUIREMENT				N/A	N/A	N/A						
PH	SAMPLE MEASUREMENT							SU	0	1/7	GRAB		
	PERMIT REQUIREMENT				6.0		9.0						
OIL & GREASE	SAMPLE MEASUREMENT							mg/L	0	1/7	GRAB		
	PERMIT REQUIREMENT				0.0	10.0	15.0						
PHENOLS	SAMPLE MEASUREMENT							mg/L	0	1/30	GRAB		
	PERMIT REQUIREMENT				0.0	0.5	0.7						
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED, BASED ON MY INSURANCE OF THE PERSONS OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)							TELEPHONE		DATE		
R. D. Collins TYPED OR PRINTED									503, 286-3681		03 08 04		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT							AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Baunna, KII



Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

July 2, 2003

Oregon Department of Environmental Quality
Northwest Region
2020 SW Forth Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of June 2003.

There were no discharges during the month; thus, there were excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
kamereras@koppers.com

Sincerely,



Amir S. Kamerer

C.C. M. Pronold, City of Portland, Environmental Services

T. Self, KII

B. Bauman, KII

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road
Portland, OR. 97210-3663

FACILITY NORTHWEST Terminal
LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-15)

(17-19)

OR-000077-9
PERMIT NUMBER

001
DISCHARGE NUMBER

47430

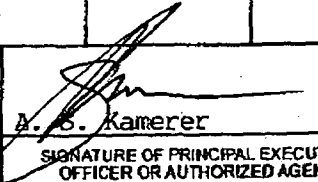
101642

☒ Check here if No Discharge

NOTE: Read Instructions before completing this form

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
03	06	01	03	06	30
(20-21) (22-23) (24-25)			(26-27) (28-29) (30-31)		

PARAMETER (32-37)	X	(3 Card Only) (48-53)			(4 Card Only) (38-45)					NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS				
FLOW SEE COVER LETTER	SAMPLE MEASUREMENT			GPD						0	N/A	CALC.
	PERMIT REQUIREMENT											
TEMPERATURE	SAMPLE MEASUREMENT							° C	0	1/7	GRAB	
	PERMIT REQUIREMENT				N/A	N/A	N/A					
PH	SAMPLE MEASUREMENT							SU	0	1/7	GRAB	
	PERMIT REQUIREMENT				6.0		9.0					
OIL & GREASE	SAMPLE MEASUREMENT							mg/L	0	1/7	GRAB	
	PERMIT REQUIREMENT				0.0	10.0	15.0					
PHENOLS	SAMPLE MEASUREMENT							mg/L	0	1/30	GRAB	
	PERMIT REQUIREMENT				0.0	0.5	0.7					
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	<small>I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. § 1061 AND 33 U.S.C. § 1315. (Penalties under these statutes may include fines up to \$50,000 and/or maximum imprisonment of between 5 months and 5 years.)</small>	TELEPHONE	DATE			
R. D. Collins		 A. S. Kamerer SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	503 286-3681	03	07	02
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MO

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII



Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

June 4, 2003

Oregon Department of Environmental Quality
Northwest Region
2020 SW Footh Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of May 2003.

For the month, we had one regular discharge of our 220,000-gallon storage tanks, for a total discharge of 220,000 gallons. This "slug" discharge of 220,000 gallons was pumped on May 9th. There were no excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
kamerceras@koppers.com

Sincerely,



Amos S. Kameron

CC: M. Pronold, City of Portland, Environmental Services

T. Self, KII

B. Bauman, KII

Environmental Department Document Control										
<input checked="" type="checkbox"/>	Date Received: <u>6/4/03</u>									
<input checked="" type="checkbox"/>	Logged: <u>1065</u> (initials/date)									
<input type="checkbox"/>	Exceptions: _____									
<input type="checkbox"/>	Approved: _____ (initials/date)									
<input type="checkbox"/>	Distribution: <table border="0"> <tr> <td>Leslie</td> <td>John</td> <td>Patrick</td> </tr> <tr> <td>Tim</td> <td>Traci</td> <td>Linda</td> </tr> <tr> <td>Mary</td> <td>Heather</td> <td></td> </tr> </table>	Leslie	John	Patrick	Tim	Traci	Linda	Mary	Heather	
Leslie	John	Patrick								
Tim	Traci	Linda								
Mary	Heather									
<input type="checkbox"/>	Copy to: _____									
<input type="checkbox"/>	File Date: _____									

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road
Portland, OR. 97210-3663

FACILITY Northwest Terminal
LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16) (17-18)

OR-000077-9

PERMIT NUMBER

001

DISCHARGE NUMBER

47430

101642

☐ Check here if No Discharge

NOTE: Read Instructions before completing this form

Form Approved
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
03	05	01	03	05	31
FROM (20-21) (22-23) (24-25)			TO (26-27) (28-29) (30-31)		

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (46-53)			NO EX (52-53)	FREQUENCY OF ANALYSIS (54-58)	SAMPLE TYPE (59-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW SEE COVER LETTER	SAMPLE MEASUREMENT			GPD				0	N/A	CALC.
	PERMIT REQUIREMENT									
TEMPERATURE	SAMPLE MEASUREMENT				13.0	13.7	14.4	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A			
PH	SAMPLE MEASUREMENT				7.1	7.2	7.3	0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0			
OIL & GREASE	SAMPLE MEASUREMENT				2.0	2.0	2.0	0	1/7	GRAB
	PERMIT REQUIREMENT				0.0	10.0	15.0			
PHENOLS	SAMPLE MEASUREMENT				0.20	0.20	0.20	0	1/30	GRAB
	PERMIT REQUIREMENT				0.0	0.5	0.7			
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 36 U.S.C. § 1011 AND 33 U.S.C. § 5119. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE		DATE		
R. D. Collins		503, 286-3681		03	06	
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauma, KII



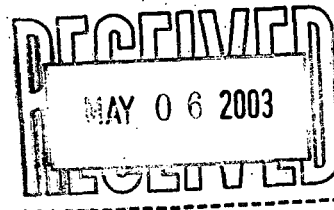
Koppers Inc.
Carbon Materials and Chemicals
7540 NW Saint Helens Road
Portland, OR 97210-3663
Tel 503 286 3681
Fax 503 285 2831
www.koppers.com

May 6, 2003

Oregon Department of Environmental Quality
Northwest Region
2020 SW Forth Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report



Dear Mr. Zais,

Attached please find subject report for the month of April 2003.

For the month, we had six regular discharges of our 220,000-gallon storage tanks, for a total discharge of 1,320,000 gallons. These "slug" discharges of 220,000 gallons each were pumped on the following days: April 2nd, 3rd, 9th, 17th, 18th, and 24th. There were no excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
kamereras@koppers.com

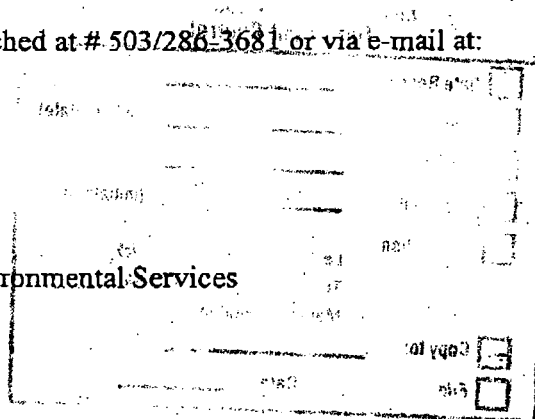
Sincerely,

Arnos S. Kamerer

CC: M. Pronold, City of Portland, Environmental Services

T. Self, KII

B. Bauman, KII



**Environmental Department
Document Control**

<input type="checkbox"/>	Date Received	_____	
<input type="checkbox"/>	Logged:	_____	(initials/date)
<input type="checkbox"/>	Exceptions:	_____	
<input type="checkbox"/>	Approved:	_____	(initials/date)
<input type="checkbox"/>	Distribution:	Leslie John Patrick Tim Traci Linda Mary Heather	
<input type="checkbox"/>	Copy to:	_____	
<input type="checkbox"/>	File	Date: _____	

PERMITTEE NAME/ADDRESS (Include Facility Name, Location & DDB Area)
 NAME Koppers Industries, Inc.
 ADDRESS 7540 NW Saint Helens Road
 Portland, OR. 97210-3663
 FACILITY LOCATION Northwest Terminal
 Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)
 (2-18) (17-19)

OR-000077-9
 PERMIT NUMBER
 001
 DISCHARGE NUMBER

47430

101642

☐ Check here if No Discharge

NOTE: Read instructions before completing this form

Form Approved,
 OMB No. 2040-0004
 Approval expires 05-31-98

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
03	04	01	03	04	30
(20-21)		(22-23) (24-25)	(26-27) (28-29)		(30-31)

PARAMETER (32-37)	X	(3 Cord Only) (40-53) QUANTITY OR LOADING (54-61)			(4 Cord Only) (38-45) QUALITY OR CONCENTRATION (46-53) (54-61)			NO. FX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW SEE COVER LETTER	SAMPLE MEASUREMENT			GPD				0	N/A	CALC.
	PERMIT REQUIREMENT									
TEMPERATURE	SAMPLE MEASUREMENT				12.2	12.9	14.1	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A			
PH	SAMPLE MEASUREMENT				7.1	7.2	7.4	0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0			
OIL & GREASE	SAMPLE MEASUREMENT				<2.0	2.0	4.0	0	1/7	GRAB
	PERMIT REQUIREMENT				0.0	10.0	15.0			
PHENOLS	SAMPLE MEASUREMENT				0.12	0.12	0.12	0	1/30	GRAB
	PERMIT REQUIREMENT				0.0	0.5	0.7			
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE	DATE			
R. D. Collins		503 286-3681	03	05	06	
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Bauman, KII

**Koppers Inc.****Carbon Materials and Chemicals**

7540 NW Saint Helens Road

Portland, OR 97210-3663

Tel 503 286 3681

Fax 503 285 2831

www.koppers.com

April 1, 2003

Oregon Department of Environmental Quality
Northwest Region
2020 SW Forth Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

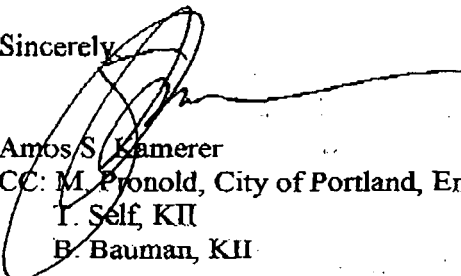
Dear Mr. Zais,

Attached please find subject report for the month of March 2003.

For the month, we had six regular discharges of our 220,000-gallon storage tanks, for a total discharge of 1,320,000 gallons. These "slug" discharges of 220,000 gallons each were pumped on the following days: March 7th, 12th, 14th, 20th, 21st and 28th. There were no excursions during the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
kamereras@koppers.com

Sincerely,


Amos S. Kamerer

CC: M. Pronold, City of Portland, Environmental Services

T. Self, KII

B. Bauman, KII

Environmental Department Document Control										
<input checked="" type="checkbox"/> Date Received	9/10/03									
<input checked="" type="checkbox"/> Logged	LS 9/10 (initials/date)									
<input type="checkbox"/> Exceptions:										
<input type="checkbox"/> Approved:	(initials/date)									
<input type="checkbox"/> Distribution:	<table> <tr> <td>Leslie</td> <td>John</td> <td>Patrick</td> </tr> <tr> <td>Tim</td> <td>Traci</td> <td>Linda</td> </tr> <tr> <td>Marv</td> <td>Heather</td> <td></td> </tr> </table>	Leslie	John	Patrick	Tim	Traci	Linda	Marv	Heather	
Leslie	John	Patrick								
Tim	Traci	Linda								
Marv	Heather									
<input type="checkbox"/> Copy to										

FROM : KOPPERS INDUSTRIES, INC. 503 285 2831 2003.04-01 14:17 #411 P.02/02

PERMITTEE NAME/ADDRESS (include Facility Name, Location if Different)
NAME Koppers Industries, Inc.
ADDRESS 7540 NW Saint Helens Road
 Portland, OR. 97210-3663
FACILITY LOCATION Northwest Terminal
 Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)
 (2-18) (17-19)

OR-000077-9
 PERMIT NUMBER

001
 DISCHARGE NUMBER

47430

101642

☐ Check here if No Discharge

NOTE: Read instructions before completing this form

Form Approved
 OMB No. 2040-0004
 Approval expires 05-31-98

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
03	03	01	03	03	31
(20-21) (22-23) (24-25)			(26-27) (28-29) (30-31)		

PARAMETER (32-37)		(3 Card Only) (48-53)			UNITS	(4 Card Only) (38-45)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	QUANTITY OR LOADING (54-61)		MINIMUM	AVERAGE	MAXIMUM				
FLOW SEE COVER LETTER	SAMPLE MEASUREMENT				GPD					0	N/A	CALC.
	PERMIT REQUIREMENT											
TEMPERATURE	SAMPLE MEASUREMENT					9.9	11.6	13.6	°C	0	1/7	GRAB
	PERMIT REQUIREMENT					N/A	N/A	N/A				
PH	SAMPLE MEASUREMENT					7.1	7.2	7.4	SU	0	1/7	GRAB
	PERMIT REQUIREMENT					6.0		9.0				
OIL & GREASE	SAMPLE MEASUREMENT					2.0	2.0	4.0	mg/L	0	1/7	GRAB
	PERMIT REQUIREMENT					0.0	10.0	15.0				
PHENOLS	SAMPLE MEASUREMENT					0.06	0.06	0.06	mg/L	0	1/30	GRAB
	PERMIT REQUIREMENT					0.0	0.5	0.7				
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R. D. Collins

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY OBTAIN AND EVALUATE THE INFORMATION SUBMITTED BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR WHOSE PERSONS DIRECTLY RESPONSIBLE FOR OBTAINING THE INFORMATION. THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

A. S. Kamerer

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

503, 286-3681

AREA CODE NUMBER

DATE

03 04 01

YEAR MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Baumna, KII

Koppers003091



Koppers Inc.

Carbon Materials and Chemicals

7540 NW Saint Helens Road

Portland, OR 97210-3663

Tel 503 286 3681

Fax 503 285 2831

www.koppers.com

March 3, 2003

Oregon Department of Environmental Quality
Northwest Region
2020 SW Footh Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of February 2003.

For the month, we had two regular discharges of our 220,000-gallon storage tanks, for a total discharge of 440,000 gallons. These "slug" discharges of 220,000 gallons each were pumped on the following days: February 17th and 18th. There were no excursions during the month.

Please also note that we have changed our company name effective February 24, 2003 from Koppers Industries, Inc. to Koppers Inc.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
kamereras@koppers.com

Sincerely,



Amos S. Kamerer

CC: M. Pronold, City of Portland, Environmental Services

T. Self, KII

B. Bauman, KII

Environmental Department Document Control										
<input checked="" type="checkbox"/> Date Received	3/3/03									
<input checked="" type="checkbox"/> Logged	6/2/3/17 (initials/date)									
<input type="checkbox"/> Exceptions:										
<input type="checkbox"/> Approved:	(initials/date)									
<input type="checkbox"/> Distribution:	<table> <tr> <td>Leslie</td> <td>John</td> <td>Patrick</td> </tr> <tr> <td>Tim</td> <td>Grace</td> <td>Linda</td> </tr> <tr> <td>Other</td> <td>Other</td> <td></td> </tr> </table>	Leslie	John	Patrick	Tim	Grace	Linda	Other	Other	
Leslie	John	Patrick								
Tim	Grace	Linda								
Other	Other									
<input type="checkbox"/> Copy to:										
<input checked="" type="checkbox"/> File	40 3/11/03									

FROM : KOPPERS INDUSTRIES, INC. 503 285 2831 1994.01-07 14:05 #377 P.02/02

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME Koppers Industries, Inc.
ADDRESS 7540 NW Saint Helens Road
 Portland, OR. 97210-3663
FACILITY LOCATION Northwest Terminal
 Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)
 (2-16) (17-19)

OR-000077-9
PERMIT NUMBER
001
DISCHARGE NUMBER

47430

101642

☐ Check here if No Discharge

NOTE: Read Instructions before completing this form

Form Approved
 OMB No. 2040-0004
 Approval expires 05-31-98

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
03	02	01	03	02	28
FROM (20-21) (22-23) (24-25)			TO (26-27) (28-29) (30-31)		

PARAMETER (32-37)		(3 Card Only) (10-53)			(4 Card Only) (38-45)			NO. EX (52-53)	FREQUENCY OF ANALYSIS (54-55)	SAMPLE TYPE (59-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW SEE COVER LETTER	SAMPLE MEASUREMENT			CPD				0	N/A	CALC.
	PERMIT REQUIREMENT									
TEMPERATURE	SAMPLE MEASUREMENT				10.3	10.5	10.7	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A			
PH	SAMPLE MEASUREMENT				7.2	7.4	7.6	0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0			
OIL & GREASE	SAMPLE MEASUREMENT				4.0	4.0	4.0	0	1/7	GRAB
	PERMIT REQUIREMENT				0.0	10.0	15.0			
PHENOLS	SAMPLE MEASUREMENT				0.09	0.09	0.09	0	1/30	GRAB
	PERMIT REQUIREMENT				0.0	0.5	0.7			
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R. D. Collins

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 16 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 3 years.)

A. S. Kamerer

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

503 286-3681

AREA CODE

NUMBER

DATE

03 03 03

YEAR MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronbld, City of Portland; T. Self, KII; B. Baumna, KII

KOPPERS INDUSTRIES

Amos S. Kamerer
Plant Manager

Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Telephone: 503-286-3681
Fax: 503-285-2831

Oregon Department of Environmental Quality
Northwest Region
2020 SW Footh Ave., Suite 400
Portland, Oregon 97201-4987

February 6, 2003

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Post-it® Fax Note	7671	Date	2/6/03	# of pages	1
To	T. Self		From		
Con/Dept	B. Bauman		Co.		
Phone #					
Fax #					

Revised cover letter

Dear Mr. Zais,

Attached please find subject report for the month of January 2003, including the 1st quarter PAH results.

For the month, we had four regular discharges of our 220,000-gallon storage tanks, for a total discharge of 880,000 gallons. These "slug" discharges of 220,000 gallons each were pumped on the following days:
January 3rd, 14th, 15th and 24th.

Additionally, on January 31st we experienced flooding at the plant from the severe storm that started on the 30th. I have calculated that we discharged another 2,126,600 gallons of storm water out of the tank farm from this event, as follows:

Friday January 31: 1,438,600 gallons total; 885,600 gallons through the out fall that feeds into the Columbia River; 553,000 gallons was pumped from the tank farm out back behind our pencil pitch storage buildings.

Saturday February 1: 688,000 gallons total; 369,000 gallons to the out fall; 319,000 gallons behind the pencil pitch storage buildings.

The storm water pumped behind the pencil pitch storage buildings simply percolated back into the ground.

Finally, for the record, due to the flood event, I felt that it best to include the discharge that occurred on February 1st with this January data, thus, it will not be included in the February DMR.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: kamereras@koppers.com

Sincerely,

Amos S. Kamerer

CC: M. Pronold, City of Portland, Environmental Services
T. Self, KII
B. Bauman, KII



Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Amos S. Kamerer
Plant Manager

Telephone: 503-286-3681
Fax: 503-285-2831

Oregon Department of Environmental Quality
Northwest Region
2020 SW Forth Ave., Suite 400
Portland, Oregon 97201-4987

February 6, 2003

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
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If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: kamereras@koppers.com

Sincerely,



Amos S. Kamerer

CC: M. Pronold, City of Portland, Environmental Services

T. Self, KII

B. Bauman, KII

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road
Portland, OR. 97210-3663FACILITY LOCATION Northwest Terminal
Multnomah CountyNATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16) (17-19)OR-000077-9
PERMIT NUMBER001
DISCHARGE NUMBER

47430

101642

☐ Check here if No Discharge

NOTE: Read instructions before completing this form

Form Approved
OMB No. 2040-0004
Approval expires 05-31-98

PARAMETER (32-37)	X	QUANTITY OR LOADING (48-53) (54-61)			QUALITY OR CONCENTRATION (38-46) (48-53) (54-61)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)		
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM						
FLOW	SAMPLE MEASUREMENT			GPD					0	N/A	CALC.		
SEE COVER LETTER	PERMIT REQUIREMENT												
TEMPERATURE	SAMPLE MEASUREMENT				10.2	11.6	14.8	°C	0	1/7	GRAB		
	PERMIT REQUIREMENT				N/A	N/A	N/A						
PH	SAMPLE MEASUREMENT				6.9	7.1	7.3	SU	0	1/7	GRAB		
	PERMIT REQUIREMENT				6.0		9.0						
OIL & GREASE	SAMPLE MEASUREMENT				<2.0	1.0	4.0	mg/L	0	1/7	GRAB		
	PERMIT REQUIREMENT				0.0	10.0	15.0						
PHENOLS	SAMPLE MEASUREMENT				0.07	0.07	0.07	mg/L	0	1/30	GRAB		
	PERMIT REQUIREMENT				0.0	0.5	0.7						
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY CAPABLE AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. § 1001 AND 31 U.S.C. § 3119. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)							TELEPHONE		DATE		
R. D. Collins									503, 286-3681		03	02	06
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT							AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Baumna, KII

QPM
2003



CERTIFICATE OF ANALYSIS

CLIENT: Koppers Industries, Inc.
7540 NW St. Helens Road
Portland OR, 97210-3663
ATTN: Amos Kamerer

PROJECT NAME: Stormwater Tests

PHONE: (503) 286-3681
FAX: (503) 285-2831

SUBMITTED: 01/02/03 09:05

REPORT DATE: 01/06/03 14:44

REPORT NUMBER: 3010201

PAGE: 1 OF 1

CI SAMPLE	CLIENTS ID#	DATE	TIME	MATRIX			
3010201-01	Stormwater Tanks	01/02/2003	0830	Water			
SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME
3010201-01	SAMPLE ID: Stormwater Tanks						
General Bench Analysis							
O & G, TOTAL (HEM)	EPA 1664	TOTAL OIL AND GREASE	ND	mg/L	2	DR	01/02/2003 14:12
PHENOLS, TOTAL	EPA 420.1	TOTAL RECOVERABLE PHENOLICS	0.070	mg/L	0.050	RGR	01/06/2003 14:20
Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy							
PNAH 625	EPA 625 (SIM)	ACENAPHTHENE	4.9	ug/L	0.04	DM	01/03/2003 11:35
		ACENAPHTHYLENE	0.5	ug/L	0.04		
		ANTHRACENE	1.6	ug/L	0.04		
		BENZO(a)ANTHRACENE	3.2	ug/L	0.04		
		BENZO(a)PYRENE	4.3	ug/L	0.04		
		BENZO(b)FLUORANTHENE	3.2	ug/L	0.04		
		BENZO(g,h,i)PERYLENE	2.5	ug/L	0.04		
		BENZO(k)FLUORANTHENE	3.6	ug/L	0.04		
		CHRYSENE	4.2	ug/L	0.04		
		DIBENZO(a,h)ANTHRACENE	0.7	ug/L	0.04		
		FLUORANTHENE	11.8	ug/L	0.04		
		FLUORENE	1.2	ug/L	0.04		
		INDENO(1,2,3-cd)PYRENE:	2.6	ug/L	0.04		
		NAPHTHALENE	2.6	ug/L	0.04		
		PHENANTHRENE	2.4	ug/L	0.04		
		PYRENE	8.5	ug/L	0.04		
		Surrogate: Nitrobenzene-D5	76.4 %	%RECOVERY	50-150		
		Surrogate: p-Terphenol-d14	98.2 %	%RECOVERY	50-150		

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Authorized for Release By:

David T. Back - Quality/Systems Manager

5032852831

FROM: KOPPERS

FAX NO. : 5032852831

Nov. 10 2005 10:02AM P1

KOPPERS

FAX TRANSMITTAL

7540 N.W. Saint Helens Rd.
Portland, Oregon 97210-3663
Phone: (503) 286-3681
Fax: (503) 285-2831
Web Page: www.koppers.com

TO: Traci Self

DATE: 11/10/05

FROM: Amos

TOTAL # OF PAGES: 3

3rd & 4th Qtr. PAH test results for 2002

IF THIS TRANSMITTAL IS IN ERROR, PLEASE CALL 503-286-3681 FAX# 503-285-2831

Koppers003101



CERTIFICATE OF ANALYSIS

CLIENT: KOPPERS INDUSTRIES, INC.
7540 NW ST. HELENS ROAD
PORTLAND OR 97210-3663

PHONE: (503) 286-3681
FAX: (503) 285-2831

DATE SUBMITTED: 09/12/20

PROJECT NAME: STORM WATER ANALYSIS

CI SAMPLE	CLIENTS ID#	DATE	TIME	MATRIX	DESCRIPTION
01772-001		09/12/2000	1000	Water	STORM WATER TANK GRAB WATER SAMPLE

REPORT DATE: 09/14/2000 REPORT NUMBER: 01772 PAGE: 1 OF 1

SAMPLE	ANALYSIS	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	ANALYST
STORM WATER TANK GRAB WATER SAMPLE		SAMPLE ID:				
01772-001	O & G TOTAL (HEM) EPA 1664	TOTAL OIL AND GREASE	3.1	mg/L	2	Gordon L 09/12/2000
STORM WATER TANK GRAB WATER SAMPLE		SAMPLE ID:				
01772-001	PHENOLS, TOTAL EPA 420.1	TOTAL RECOVERABLE PHENOLICS	0.18	mg/L	0.05	Jeremy B 09/14/2000
STORM WATER TANK GRAB WATER SAMPLE		SAMPLE ID:				
01772-001	PNAH 2 EPA 625 (SIM)	ACENAPHTHENE	20	ug/L	0.05	Jacob F
		ACENAPHTHYLENE	5.1	ug/L	0.05	09/14/2000
		ANTHRACENE	2.8	ug/L	0.05	
		BENZO(A)ANTHRACENE	2.0	ug/L	0.05	
		BENZO(A)PYRENE	1.7	ug/L	0.2	
		BENZO(B)FLUORANTHENE	1.8	ug/L	0.2	
		BENZO(GHI)PERYLENE	1.2	ug/L	0.5	
		BENZO(K)FLUORANTHENE	1.6	ug/L	0.2	
		CHRYSENE	2.8	ug/L	0.05	
		DIBENZO(AH)ANTHRACENE	0.74	ug/L	0.3	
		FLUORANTHENE	8.2	ug/L	0.05	
		FLUORENE	8.1	ug/L	0.05	
		INDENO(1,2,3-CD)PYRENE	1.0	ug/L	0.4	
		NAPHTHALENE	1.8	ug/L	0.05	
		PHENANTHRENE	0.91	ug/L	0.05	
		PYRENE	7.0	ug/L	0.05	
		SURROGATE	85%	% RECOVERY 50%-150%		

RECEIVED

SEP 18 2000

ORIGINAL

KOPPERS INDS, INC.
PORTLAND OR

REVIEWED BY:

Martin Little

Martin Little - Quality Manager

COLUMBIA INSPECTION, INC. 7133 N. Lombard, Portland, OR 97203 Phone: (503) 286-9484 Fax: (503) 286-5355 E-mail: lab@ColumbiaInspection.com

Koppers003102



CERTIFICATE OF ANALYSIS

CLIENT: KOPPERS INDUSTRIES, INC.
7540 NW ST. HELENS ROAD
PORTLAND OR 97210-3663

PHONE: (503) 286-3681
FAX: (503) 285-2831

DATE SUBMITTED: 10/10/20

PROJECT NAME: STORM WATER TANKS

CI SAMPLE	CLIENTS ID#	DATE	TIME	MATRIX	DESCRIPTION
01943-001		10/10/2000	1000	Water	STORM WATER TANK WATER GRAB SAMPLE

REPORT DATE: 10/12/2000 REPORT NUMBER: 01943 PAGE: 1 OF 1

SAMPLE	ANALYSIS	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	ANALYST
STORM WATER TANK WATER GRAB SAMPLE						
01943-001	O & G TOTAL (HEM) EPA 1664	TOTAL OIL AND GREASE	ND	mg/L	2	Gordon L 10/12/2000
STORM WATER TANK WATER GRAB SAMPLE						
01943-001	PHENOLS, TOTAL EPA 420.1	TOTAL RECOVERABLE PHENOLICS	0.06	mg/L	0.05	Jeremy B 10/11/2000
STORM WATER TANK WATER GRAB SAMPLE						
01943-001	FNAH 2 EPA 625 (SIM)	ACENAPHTHENE	0.60	ug/L	0.05	Dave M 10/11/2000
		ACENAPHTHYLENE	0.14	ug/L	0.05	
		ANTHRACENE	0.66	ug/L	0.05	
		BENZO(A)ANTHRACENE	2.1	ug/L	0.05	
		BENZO(A)PYRENE	2.8	ug/L	0.2	
		BENZO(B)FLUORANTHENE	3.4	ug/L	0.2	
		BENZO(GHI)PERYLENE	2.9	ug/L	0.5	
		BENZO(K)FLUORANTHENE	3.4	ug/L	0.2	
		CHRYSENE	3.3	ug/L	0.05	
		DIBENZO(AH)ANTHRACENE	1.5	ug/L	0.3	
		FLUORANTHENE	4.1	ug/L	0.05	
		FLUORENE	ND	ug/L	0.5	
		INDENO(1,2,3-CD)PYRENE	2.7	ug/L	0.4	
		NAPHTHALENE	ND	ug/L	0.5	
		PHENANTHRENE	1.4	ug/L	0.05	
		PYRENE	3.5	ug/L	0.05	
		SURROGATE	102	% RECOVERY 50%-150%		

REVIEWED BY:

Martin Little - Quality Manager

**KOPPERS
INDUSTRIES**

Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Amos S. Kamerer
Plant Manager

Telephone: 503-286-3681
Fax: 503-285-2831

January 7, 2003

Oregon Department of Environmental Quality
Northwest Region
2020 SW Forth Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of December 2002.

For the month, we had seven discharges of our 220,000-gallon storage tanks, for a total discharge of 1,540,000 gallons. This was discharged over 7 days, for an average "slug" discharge of 220,000 gallons per day, on the days of December 13th, 17th, 18th, 19th, 21st, 30th and 31st.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
kamereras@koppers.com

Sincerely,



Amos S. Kamerer

CC: M. Pronold, City of Portland, Environmental Services
T. Self, KII
B. Bauman, KII

Environment Department Document Control										
<input checked="" type="checkbox"/> Date Received	4/7/03									
<input checked="" type="checkbox"/> Logged:	OR 4/9 (initials/date)									
<input type="checkbox"/> Exemptions:										
<input type="checkbox"/> Approved:	(initials name)									
<input type="checkbox"/> Distribution:	<table border="0"> <tr> <td>Leslie</td> <td>John</td> <td>Patrick</td> </tr> <tr> <td>Don</td> <td>Travis</td> <td>Linda</td> </tr> <tr> <td>Al</td> <td>Deborah</td> <td></td> </tr> </table>	Leslie	John	Patrick	Don	Travis	Linda	Al	Deborah	
Leslie	John	Patrick								
Don	Travis	Linda								
Al	Deborah									
<input type="checkbox"/> Copy to:										
<input type="checkbox"/> File										

FROM : KOPPERS INDUSTRIES, INC. 503 285 2831 2PM 1-07 10:02 #299 P.02/02

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road
Portland, OR. 97210-3663

FACILITY NORTHWEST Terminal
LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OR-000077-9
PERMIT NUMBER

001
DISCHARGE NUMBER

47430

101642

☐ Check here if No Discharge

NOTE: Read Instructions before completing this form

Form Approved
OMB No. 2040-0004
Approval expires 05-31-88

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (48-53)			(4 Card Only) QUALITY OR CONCENTRATION (48-53)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (68-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
FLOW SEE COVER LETTER	SAMPLE MEASUREMENT			gpd					0	N/A	CALC.
	PERMIT REQUIREMENT										
TEMPERATURE	SAMPLE MEASUREMENT				9.5	10.6	11.1	°C	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A				
PH	SAMPLE MEASUREMENT				6.8	6.9	7.5	su	0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASE	SAMPLE MEASUREMENT				<0.0	2.3	5.0	mg/L	0	1/7	GRAB
	PERMIT REQUIREMENT				0.0	10.0	15.0				
PHENOLS	SAMPLE MEASUREMENT				<0.05	<0.05	<0.05	mg/L	0	1/30	GRAB
	PERMIT REQUIREMENT				0.0	0.5	0.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R. D. Collins

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECT OR SUPERVISORY CONTROL AND TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1315. (Penalties under these statutes may include fines up to \$250,000 and/or maximum imprisonment of between 5 months and 5 years.)

S. Kameron

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

503 286-3681

AREA CODE

NUMBER

DATE

03 01 07

YEAR MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City of Portland; T. Self, KII; B. Baumna, KII

Koppers003106

**KOPPERS
INDUSTRIES**

Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Amos S. Kameron
Plant Manager

Telephone: 503-286-3681
Fax: 503-285-2831

December 4, 2002

Oregon Department of Environmental Quality
Northwest Region
2020 SW FORTH Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

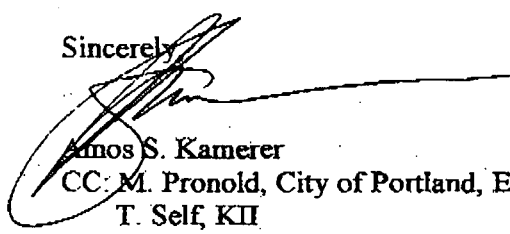
Dear Mr. Zais,

Attached please find subject report for the month of November 2002.

For the month, we had two discharges of our 220,000 gallon storage tanks, for a total discharge of 440,000 gallons. This was discharged over 2 days, for an average "slug" discharge of 220,000 gallons per day, on the days of November 15th and 22nd.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
kamereras@koppers.com

Sincerely,



Amos S. Kameron

CC: M. Pronold, City of Portland, Environmental Services
T. Self, KII
B. Bauman, KII

Environmental Department Document Control										
<input checked="" type="checkbox"/> Date Received	12/9/02									
<input checked="" type="checkbox"/> Logged	CR 12/5 (initials/date)									
<input type="checkbox"/> Exceptions:										
<input type="checkbox"/> Approved	(initials/date)									
<input type="checkbox"/> Distribution:	<table border="0"> <tr> <td>Leslie</td> <td>Jan</td> <td>Patrick</td> </tr> <tr> <td>Tim</td> <td>Traci</td> <td>Linda</td> </tr> <tr> <td>Mary</td> <td>Rebecca</td> <td></td> </tr> </table>	Leslie	Jan	Patrick	Tim	Traci	Linda	Mary	Rebecca	
Leslie	Jan	Patrick								
Tim	Traci	Linda								
Mary	Rebecca									
<input type="checkbox"/> Copy to:										
<input type="checkbox"/> File	File:									

Koppers003109
FROM : KOPPERS INDUSTRIES, INC
503 285 2831
20m
-04
13:49
#250 P.02/02

PERMITTEE NAME/ADDRESS (Include Facility Name, Location & Other info)

NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road

Portland, OR. 97210-3663

FACILITY NORTHWEST Terminal

LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-15)

(17-19)

OR-000077-9

PERMIT NUMBER

001

DISCHARGE NUMBER

47430

101642

☐ Check here if No Discharge

NOTE: Read Instructions before completing this form

Form Approved
OMB No. 2040-0004
Approval expires 05-31-88

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
02	11	01	02	11	30
FROM (20-21) (22-23) (24-25)			TO (26-27) (28-29) (30-31)		

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (48-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-59)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)		
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM					
FLOW SEE COVER LETTER	SAMPLE MEASUREMENT	220,000		GPD				0	N/A	CALC.		
	PERMIT REQUIREMENT											
TEMPERATURE	SAMPLE MEASUREMENT				12.3	12.6	12.7	0	1/7	GRAB		
	PERMIT REQUIREMENT				N/A	N/A	N/A					
PH	SAMPLE MEASUREMENT				7.0	7.5	8.5	0	1/7	GRAB		
	PERMIT REQUIREMENT				6.0		9.0					
OIL & GREASE	SAMPLE MEASUREMENT				2.0	6.5	11.0	0	1/7	GRAB		
	PERMIT REQUIREMENT				0.0	10.0	15.0					
PHENOLS	SAMPLE MEASUREMENT				<0.05	<0.05	<0.05	0	1/30	GRAB		
	PERMIT REQUIREMENT				0.0	0.5	0.7					
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. § 1001 AND 30 U.S.C. § 1012. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)						TELEPHONE		DATE		
R. D. Collions												
TYPED OR PRINTED		A. S. Kameroner						503, 286-3681		02 12 04		
		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT						AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City Portland; T. Self, KII; M. Cilley, KII



Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Amos S. Kamerer
Plant Manager

Telephone: 503-286-3681
Fax: 503-285-2831

November 5, 2002

Oregon Department of Environmental Quality
Northwest Region
2020 SW Forth Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of October 2002, including the PAH analysis for the 4th quarter.

As a follow up to our conversation today, we have decided to change the way we are reporting our average daily discharge information on the DMR. As you know, we have 6 tanks dedicated to storm water collection service that hold a total of 220,000 gallons. When these tanks are full, we sample and then do not discharge the storm water until after we have the antilicatal data form the laboratory, to assure that we do not have a permit excedance.

In the past, we would report the average daily discharge by taking the total number of discharges during the month for the 6 tanks and then dividing that quantity by the number of days per month. We have decided that to more accurately report the discharge information, we should take the total quantity of storm water discharged each month and divide that by the number of days of actual discharge; as an amount of "slug" discharge per day, for the given month.

Thus, for the month of October, we had one discharge during the month of 220,000 gallons, which was discharged over 2 days, for an average "slug" discharge of 110,000 gallons per day, on the days of October 1st and 2nd.

Thanks again, for you're in put on this matter.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at: kamereras@koppers.com

Sincerely,



Amos S. Kamerer
CC: M. Pronold, City of Portland, Environmental Services
T. Self, KII
M. Cilley, KII

Environmental Department Document Control										
<input checked="" type="checkbox"/> Date Received	4/6/02									
<input checked="" type="checkbox"/> Logged	HR 11/15/02 (initials/date)									
<input type="checkbox"/> Revisions:										
<input type="checkbox"/> Approved:	(initials, date)									
<input type="checkbox"/> Distribution:	<table border="0"> <tr> <td>Leslie</td> <td>John</td> <td>Patrick</td> </tr> <tr> <td>Tim</td> <td>Steve</td> <td>Linda</td> </tr> <tr> <td>Mary</td> <td>Heather</td> <td></td> </tr> </table>	Leslie	John	Patrick	Tim	Steve	Linda	Mary	Heather	
Leslie	John	Patrick								
Tim	Steve	Linda								
Mary	Heather									
<input type="checkbox"/> Copy to:										
<input type="checkbox"/> File	Date: _____									

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road
Portland, OR. 97210-3663

FACILITY NORTHWEST Terminal
LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OR-000077-9
PERMIT NUMBER

001
DISCHARGE NUMBER

47430

101642

☐ Check here if No Discharge

NOTE: Read Instructions before completing this form

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-88

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
02	10	01	02	10	31
(20-21) (22-23) (24-25)			(26-27) (28-29) (30-31)		

PARAMETER (32-37)		QUANTITY OR LOADING (3 Card Only) (48-53)			QUALITY OR CONCENTRATION (4 Card Only) (48-53)			NO. EX (52-53)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW SEE COVER LETTER	SAMPLE MEASUREMENT	110.000		GPD				0	N/A	CALC.
	PERMIT REQUIREMENT									
TEMPERATURE	SAMPLE MEASUREMENT				17.6	18.5	20.2	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A			
PH	SAMPLE MEASUREMENT				8.9	7.0	7.1	0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0			
OIL & GREASE	SAMPLE MEASUREMENT				<2.0	<2.0	<2.0	0	1/7	GRAB
	PERMIT REQUIREMENT				0.0	10.0	15.0			
PHENOLS	SAMPLE MEASUREMENT				<0.05	<0.05	<0.05	0	1/30	GRAB
	PERMIT REQUIREMENT				0.0	0.5	0.7			
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	<small>I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY OBTAIN AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY KNOWLEDGE OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1315. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)</small>	TELEPHONE	DATE		
R. D. Collions		503, 286-3681	02	11	05
TYPED OR PRINTED		AREA CODE	NUMBER	YEAR	MO

S. Kamerer
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City Portland; T. Self, KII; M. Cilley, KII



CERTIFICATE OF ANALYSIS

COPY

CLIENT: Koppers Industries, Inc.
7540 NW St. Helens Road
Portland OR, 97210-3863
ATTN: T.J. Turner

PROJECT NAME: quarterly stormwater test

PHONE: (503) 286-3681
FAX: (503) 285-2831

SUBMITTED: 09/30/02 13:41

CI SAMPLE	CLIENTS ID#	DATE	TIME	MATRIX
2093006-01	Stormwater Tanks	09/30/2002	1200	Water

REPORT DATE: 10/03/02 12:57

REPORT NUMBER: 2093006

PAGE: 1 OF 1

SAMPLE/ ANALYSIS	METHOD	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	TECH	DATE/TIME
2093006-01	SAMPLE ID: Stormwater Tanks						
General Bench Analysis							
O & G, TOTAL (HEM) EPA 1664		TOTAL OIL AND GREASE	ND	mg/L	2	CX	10/01/2002 09:50
PHENOLS, TOTAL EPA 420.1		TOTAL RECOVERABLE PHENOLICS	ND	mg/L	0.050	RGR	09/30/2002 18:31
Semi-Volatile Organics by Gas Chromatography/Mass Spectroscopy							
PNAH 625	EPA 625 (SIM)	ACENAPHTHENE	0.2	ug/L	0.05	RVM	10/01/2002 14:19
		ACENAPHTHYLENE	0.1	ug/L	0.05		
		ANTHRACENE	0.6	ug/L	0.05		
		BENZO(a)ANTHRACENE	1.3	ug/L	0.05		
		BENZO(a)PYRENE	2.2	ug/L	0.05		
		BENZO(b)FLUORANTHENE	1.9	ug/L	0.05		
		BENZO(g,h,i)PERYLENE	1.5	ug/L	0.05		
		BENZO(k)FLUORANTHENE	1.7	ug/L	0.05		
		CHRYSENE	2.0	ug/L	0.05		
		DIBENZO(a,h)ANTHRACENE	0.5	ug/L	0.05		
		FLUORANTHENE	2.2	ug/L	0.05		
		FLUORENE	ND	ug/L	0.05		
		INDENO(1,2,3-cd)PYRENE	1.5	ug/L	0.05		
		NAPHTHALENE	0.2	ug/L	0.05		
		PHENANTHRENE	1.1	ug/L	0.05		
		PYRENE	2.1	ug/L	0.05		
		Surrogate: 2-Fluorobiphenyl	54.9 %	%RECOVERY	50-150		
		Surrogate: Nitrobenzene-D5	56.2 %	%RECOVERY	50-150		
		Surrogate: p-Terphenol-d14	65.7 %	%RECOVERY	50-150		

This report may not be reproduced except in full.

Authorized for Release By:

David T. Back - Quality/Systems Manager

**KOPPERS
INDUSTRIES**

Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Amos S. Kamerer
Plant Manager

Telephone: 503-286-3681
Fax: 503-285-2831

October 1, 2002

Oregon Department of Environmental Quality
Northwest Region
2020 SW Forth Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

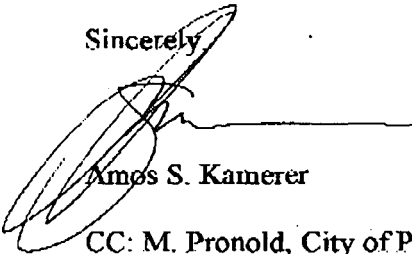
Dear Mr. Zais,

Attached please find subject report for the month of September 2002.

There were no discharges for the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
kamereras@koppers.com

Sincerely,



Amos S. Kamerer

CC: M. Pronold, City of Portland, Environmental Services
T. Self, KII
M. Cilley, KII

Environment or Department										
Document Control										
<input checked="" type="checkbox"/> Date Received	10/1/02									
<input checked="" type="checkbox"/> Logged:	10/3 (initials/date)									
<input type="checkbox"/> Exceptions:										
<input type="checkbox"/> Approved:	(initials/date)									
<input type="checkbox"/> Distribution:	<table> <tr> <td>Leslie</td> <td>John</td> <td>Patrick</td> </tr> <tr> <td>Tim</td> <td>Jack</td> <td>Linda</td> </tr> <tr> <td>Mary</td> <td>Heather</td> <td></td> </tr> </table>	Leslie	John	Patrick	Tim	Jack	Linda	Mary	Heather	
Leslie	John	Patrick								
Tim	Jack	Linda								
Mary	Heather									
<input type="checkbox"/> Copy to:										
<input checked="" type="checkbox"/> File	Date: 10/4/02									

FROM : KOPPERS INDUSTRIES, INC. 286 3681 2002.10-01 13:03 #130 P.02/02

PERMITTEE NAME/ADDRESS (Include Facility Name/Location & Delinear)

NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road

Portland, OR. 97210-3663

FACILITY NORTHWEST TERMINAL

LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OR-000077-9

PERMIT NUMBER

001

DISCHARGE NUMBER

47430

101642

☒ Check here if No Discharge

NOTE: Read Instructions before completing this form

Form Approved
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
02	09	01	02	09	30
(20-21)		(22-23)	(24-25)	(26-27)	(28-29)
				(30-31)	

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (48-53)			(4 Card Only) QUALITY OR CONCENTRATION (48-53)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW	SAMPLE MEASUREMENT			GPD				0	N/A	EST.
	PERMIT REQUIREMENT									
TEMPERATURE	SAMPLE MEASUREMENT							0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A			
PH	SAMPLE MEASUREMENT							0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0			
OIL & GREASE	SAMPLE MEASUREMENT							0	1/7	GRAB
	PERMIT REQUIREMENT				0.0	10.0	15.0			
PHENOLS	SAMPLE MEASUREMENT							0	1/30	GRAB
	PERMIT REQUIREMENT				0.0	0.5	0.7			
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R. D. Collions

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalty under these statutes may include fines up to \$10,000 or a maximum term of imprisonment of between 6 months and 5 years.)

A. S. Kamerer

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

503.286-3681

AREA CODE

NUMBER

DATE

02

10

01

YEAR

MO

DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City Portland; T. Self, KII; M. Cilley, KII



Amos S. Kamerer
Plant Manager

Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Telephone: 503-286-3681
Fax: 503-286-2831

September 3, 2002

Oregon Department of Environmental Quality
Northwest Region
2020 SW Forth Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of August 2002.

There were no discharges for the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
kamereras@koppers.com

Sincerely,



Amos S. Kamerer

CC: M. Pronold, City of Portland, Environmental Services
T. Self, KII
M. Cilley, KII

Logged

#067 P.02/02

09:25

2002.09-03

286 3681

FROM : KOPPERS INDUSTRIES, INC.

Koppers003118

PERMITTEE NAME/ADDRESS (Include Facility Name/Location # Different)
NAME Koppers Industries, Inc.
ADDRESS 7540 NW Saint Helens Road
 Portland, OR. 97210-3663
FACILITY LOCATION Northwest Terminal
 Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)
 (2-19) (17-19)

OR-000077-9
PERMIT NUMBER

001
DISCHARGE NUMBER

47430

101642

☒ Check here if No Discharge

NOTE: Read instructions before completing this form

Form Approved
 OMB No. 2040-0004
 Approval expires 06-31-98

MONITORING PERIOD

YEAR	MO	DAY	YEAR	MO	DAY
02	08	01	02	08	31

FROM (20-21) (22-23) (24-25) TO (26-27) (28-29) (30-31)

PARAMETER (32-37)		(3 Card Only) (46-53)			(4 Card Only) (38-45)			(48-53)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-65)	SAMPLE TYPE (66-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS					
FLOW	SAMPLE MEASUREMENT			GPD						0	N/A	EST.	
	PERMIT REQUIREMENT												
TEMPERATURE	SAMPLE MEASUREMENT									0	1/7	GRAB	
	PERMIT REQUIREMENT				N/A	N/A	N/A						
PH	SAMPLE MEASUREMENT									0	1/7	GRAB	
	PERMIT REQUIREMENT				6.0		9.0						
OIL & GREASE	SAMPLE MEASUREMENT									0	1/7	GRAB	
	PERMIT REQUIREMENT				0.0	10.0	15.0						
PHENOLS	SAMPLE MEASUREMENT									0	1/30	GRAB	
	PERMIT REQUIREMENT				0.0	0.5	0.7						
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 40 U.S.C. § 1901 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE	DATE		
R. D. Collions		503 286-3681	02	09	03
TYPED OR PRINTED		AREA CODE	NUMBER	YEAR	MO

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT: *R. D. Collions*

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City Portland; T. Self, KII; M. Cilley, KII

**KOPPERS
INDUSTRIES**

Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Amos S. Kamerer
Plant Manager

Telephone: 503-285-3681
Fax: 503-285-2831

August 1, 2002

Oregon Department of Environmental Quality
Northwest Region
2020 SW Forth Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of July 2002.

There were no discharges for the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
kamereras@koppers.com

Sincerely,



Amos S. Kamerer

CC: M. Pronold, City of Portland, Environmental Services
T. Self, KII
M. Cilley, KII

Environmental Department Document Control										
<input checked="" type="checkbox"/> Date Received	8/1/02									
<input checked="" type="checkbox"/> Logged:	Q 8/2 (initials/initials)									
<input type="checkbox"/> Exceptions:										
<input type="checkbox"/> Approved	(initials/initials)									
<input type="checkbox"/> Distribution:	<table border="0"> <tr> <td>Leslie</td> <td>John</td> <td>Patrick</td> </tr> <tr> <td>Tim</td> <td>Tracy</td> <td>Sandra</td> </tr> <tr> <td>Mary</td> <td>Heather</td> <td></td> </tr> </table>	Leslie	John	Patrick	Tim	Tracy	Sandra	Mary	Heather	
Leslie	John	Patrick								
Tim	Tracy	Sandra								
Mary	Heather									
<input type="checkbox"/> Copy to:										
<input type="checkbox"/> File	Date									

PERMITTEE NAME/ADDRESS (Include Facility Name/Location If Different)
NAME Koppers Industries, Inc.
ADDRESS 7540 NW Saint Helens Road
Portland, OR. 97210-3663
FACILITY NORTHWEST Terminal
LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OR-000077-9
PERMIT NUMBER
001
DISCHARGE NUMBER

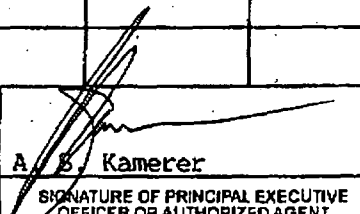
47430

101642

☒ Check here if No Discharge

NOTE: Read Instructions before completing this form

Form Approved
OMB No. 2040-0004
Approval expires 06-31-98

PARAMETER (32-37)		(3 Card Only) (46-53)			(4 Card Only) (38-45)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)		
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS					
FLOW	SAMPLE MEASUREMENT			CPD					0	N/A	EST.		
	PERMIT REQUIREMENT												
TEMPERATURE	SAMPLE MEASUREMENT							° C	0	1/7	GRAB		
	PERMIT REQUIREMENT				N/A	N/A	N/A						
PH	SAMPLE MEASUREMENT							SU	0	1/7	GRAB		
	PERMIT REQUIREMENT				6.0		9.0						
OIL & GREASE	SAMPLE MEASUREMENT							mg/L	0	1/7	GRAB		
	PERMIT REQUIREMENT				0.0	10.0	15.0						
PHENOLS	SAMPLE MEASUREMENT							mg/L	0	1/30	GRAB		
	PERMIT REQUIREMENT				0.0	0.5	0.7						
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY COLLECT AND EVALUATE THE INFORMATION SUBMITTED, BASED ON MY INDUSTRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 16 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalty as under these statutes may include a fine up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)							TELEPHONE		DATE		
R. D. Collions		 A. S. Kamerer SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT							503, 286-3681		02	08	01
TYPED OR PRINTED									AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: M. Pronold, City Portland; T. Self, KII; M. Cilley, KII

**KOPPERS
INDUSTRIES**

Amos S. Kamerer
Plant Manager

Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Telephone: 503-286-3681
Fax: 503-285-2831

July 1, 2002

Oregon Department of Environmental Quality
Northwest Region
2020 SW Forth Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

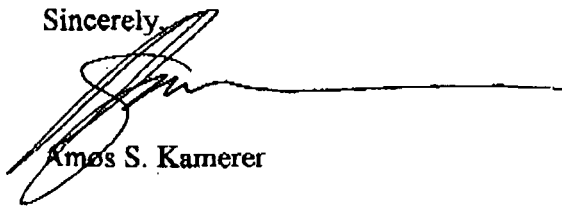
Dear Mr. Zais,

Attached please find subject report for the month of June 2002.

There were no discharges for the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
kamereras@koppers.com

Sincerely,



Amos S. Kamerer

CC: J. Holtrop, City of Portland, Environmental Services
T. Self, KII
M. Cilley, KII

Environmental Department	
Document Control	
<input checked="" type="checkbox"/>	Date Received <u>7/1/02</u>
<input checked="" type="checkbox"/>	Logged <u>CB 7/12</u> (Initials: <u> </u>)
<input type="checkbox"/>	Exceptions: <u> </u>
<input type="checkbox"/>	Approved <u> </u> (Initials: <u> </u>)
<input type="checkbox"/>	Distribution: <div style="display: flex; justify-content: space-between;"> <div> <u>Les</u> <u>Tim</u> <u>Mary</u> </div> <div> <u>Patrick</u> <u>Linda</u> <u> </u> </div> </div>
<input type="checkbox"/>	Copy to: <u> </u>
<input type="checkbox"/>	File

FROM: KOPPERS INDUSTRIES, INC. 286 3681 2002.07-01 07:29 #954 P.02/02

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME Koppers Industries, Inc.
ADDRESS 7540 NW Saint Helens Road
Portland, OR. 97210-3663
FACILITY NORTHWEST Terminal
LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OR-000077-9
PERMIT NUMBER
001
DISCHARGE NUMBER
47430

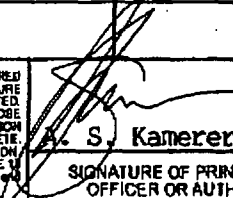
Form Approved
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD
YEAR MO DAY YEAR MO DAY
FROM 02 06 01 TO 02 06 30
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

101642

☒ Check here if No Discharge

NOTE: Read Instructions before completing this form

PARAMETER (32-37)	X	(3 Card Only) (48-53) QUANTITY OR LOADING			(4 Card Only) (38-45) QUALITY OR CONCENTRATION				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-69)	SAMPLE TYPE (69-70)		
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS					
FLOW	SAMPLE MEASUREMENT			GPD					0	N/A	EST.		
	PERMIT REQUIREMENT												
TEMPERATURE	SAMPLE MEASUREMENT							°C	0	1/7	GRAB		
	PERMIT REQUIREMENT				N/A	N/A	N/A						
PH	SAMPLE MEASUREMENT							SU	0	1/7	GRAB		
	PERMIT REQUIREMENT				6.0		9.0						
OIL & GREASE	SAMPLE MEASUREMENT							mg/L	0	1/7	GRAB		
	PERMIT REQUIREMENT				0.0	10.0	15.0						
PHENOLS	SAMPLE MEASUREMENT							mg/L	0	1/30	GRAB		
	PERMIT REQUIREMENT				0.0	0.5	0.7						
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY KNOWLEDGE OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$50,000 and/or maximum imprisonment of between 6 months and 5 years.)							TELEPHONE		DATE		
R. D. Collions		 A. S. Kamerer SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT							503, 286-3681		02	07	01
TYPED OR PRINTED									AREA CODE		NUMBER		YEAR

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: J. Holtrop, City Portland; T. Self, KII; M. Cilley, KII

**KOPPERS
INDUSTRIES**

Amos S. Kamerer
Plant Manager

Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Telephone: 503-286-3681
Fax: 503-285-2831

June 5, 2002

Oregon Department of Environmental Quality
Northwest Region
2020 SW FORTH AVE., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

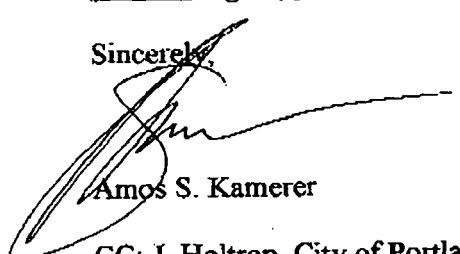
Dear Mr. Zais,

Attached please find subject report for the month of May 2002.

There were no excursions for the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
kamereras@koppers.com

Sincerely,



Amos S. Kamerer

CC: J. Holtrop, City of Portland, Environmental Services
T. Self, KII
M. Cilley, KII

Environmental Department Document Control										
<input checked="" type="checkbox"/> Date Received	<u>6/5/02</u>									
<input checked="" type="checkbox"/> Logged	<u>6/5</u> (initials/date)									
<input type="checkbox"/> Exceptions	_____									
<input type="checkbox"/> Approved:	_____ (initials/date)									
<input type="checkbox"/> Distribution:	<table border="0"> <tr> <td>Leslie</td> <td>_____</td> <td>Patrick</td> </tr> <tr> <td>Tim</td> <td>_____</td> <td>Linda</td> </tr> <tr> <td>Marc</td> <td>_____</td> <td>Deborah</td> </tr> </table>	Leslie	_____	Patrick	Tim	_____	Linda	Marc	_____	Deborah
Leslie	_____	Patrick								
Tim	_____	Linda								
Marc	_____	Deborah								
<input type="checkbox"/> Copy to:	_____									
<input type="checkbox"/> File	_____									

Koppers003127

FROM : KOPPERS INDUSTRIES, INC. 286 3681 2002.05-04 14:53 #934 P.02/02

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME Koppers Industries, Inc.
ADDRESS 7540 NW Saint Helens Road
Portland, OR. 97210-3663
FACILITY NORTHWEST Terminal
LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-15) (17-19)

OR-000077-9
PERMIT NUMBER
001
DISCHARGE NUMBER

47430

Form Approved
OMB No. 2040-0004
Approval expires 05-31-88

101642

☐ Check here if No Discharge

NOTE: Read Instructions before completing this form

MONITORING PERIOD
FROM YEAR MO DAY TO YEAR MO DAY
02 05 01 02 05 31
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

PARAMETER (32-37)		(3 Card Only) (48-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) (54-61)				NO. EX (82-83)	FREQUENCY OF ANALYSIS (64-66)	SAMPLE TYPE (68-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	7,097		GPD					0	N/A	EST.
	PERMIT REQUIREMENT										
TEMPERATURE	SAMPLE MEASUREMENT				23.2	23.6	23.9	° C	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A				
PH	SAMPLE MEASUREMENT				6.7	6.8	6.8	SU	0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASE	SAMPLE MEASUREMENT				4.3	4.3	4.3	mg/L	0	1/7	GRAB
	PERMIT REQUIREMENT				0.0	10.0	15.0				
PHENOLS	SAMPLE MEASUREMENT				<0.05	<0.05	<0.05	mg/L	0	1/30	GRAB
	PERMIT REQUIREMENT				<0.0	0.5	0.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY DUTY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1318. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE	DATE			
R. D. Collions		503, 286-3681	02	06	05	
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: J. Holtrop, City Portland; T. Self, KII; M.Cilley, KII

KOPPERS INDUSTRIES

Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Amos S. Kameron
Plant Manager

Telephone: 503-286-3681
Fax: 503-285-2831

May 2, 2002

Oregon Department of Environmental Quality
Northwest Region
2020 SW Footh Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

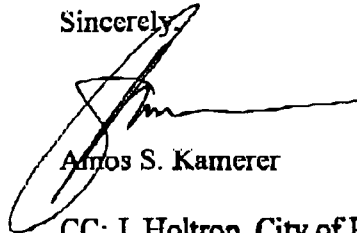
Dear Mr. Zais,

Attached please find subject report for the month of April 2002, including the second quarter PAH results.

There were no excursions for the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
kameras@koppers.com

Sincerely,



Amos S. Kameron

CC: J. Holtrop, City of Portland, Environmental Services
T. Self, KII
M. Cilley, KII

Environmental Department										
Document Control										
<input checked="" type="checkbox"/> Date Received	5/2/02									
<input checked="" type="checkbox"/> Logged	AS/2 (initials/date)									
<input type="checkbox"/> Exceptions:										
<input type="checkbox"/> Approved:	(initials/date)									
<input type="checkbox"/> Distribution:	<table border="0"> <tr> <td>Leslie</td> <td>Jim</td> <td>Patrick</td> </tr> <tr> <td>Tim</td> <td>John</td> <td>Linda</td> </tr> <tr> <td>Mark</td> <td>Heath</td> <td></td> </tr> </table>	Leslie	Jim	Patrick	Tim	John	Linda	Mark	Heath	
Leslie	Jim	Patrick								
Tim	John	Linda								
Mark	Heath									
<input type="checkbox"/> Copy to:										
<input type="checkbox"/> File										

PERMITTEE NAME/ADDRESS (Include Facility Name/Location If Different)

NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road

Portland, OR. 97210-3663

FACILITY Northwest Terminal

LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

OR-000077-9

PERMIT NUMBER

001

DISCHARGE NUMBER

47430

101642

☐ Check here if No Discharge

NOTE: Read Instructions before completing this form

Form Approved

OMB No. 2040-0004

Approval expires 05-31-88

PARAMETER (32-37)	X	(3 Card Only) (48-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-46) QUALITY OR CONCENTRATION (48-53) (54-61)				NO. EK (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)		
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS					
FLOW	SAMPLE MEASUREMENT	14,667		GPD					0	N/A	EST.		
	PERMIT REQUIREMENT												
TEMPERATURE	SAMPLE MEASUREMENT				14.1	15.3	17.3	°C	0	1/7	GRAB		
	PERMIT REQUIREMENT				N/A	N/A	N/A						
PH	SAMPLE MEASUREMENT				6.7	6.7	6.8	SU	0	1/7	GRAB		
	PERMIT REQUIREMENT				6.0		9.0						
OIL & GREASE	SAMPLE MEASUREMENT				<2.0	1.0	2.0	mg/L	0	1/7	GRAB		
	PERMIT REQUIREMENT				0.0	10.0	15.0						
PHENOLS	SAMPLE MEASUREMENT				<0.05	<0.05	<0.05	mg/L	0	1/30	GRAB		
	PERMIT REQUIREMENT				0.0	0.5	0.7						
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY KNOWLEDGE OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 40 U.S.C. § 1001 AND 33 U.S.C. § 1912. (Penalties under this statute may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)											
R. D. Collions		A. S. Kamerer								TELEPHONE		DATE	
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT								503 286-3681		02 05 02	

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: J. Holtrop, City Portland; T. Self, KII; M. Cilley, KII

CERTIFICATE OF ANALYSIS

COPY

CLIENT: Koppers Industries, Inc.
7540 NW St. Helens Road
Portland OR, 97210-3663

PHONE: (503) 286-3681
FAX: (503) 286-2831

DATE SUBMITTED: 04/10/02 11:02

PROJECT NAME: quarterly stormwater t

PROJECT NUMBER: quarterly stor

SI SAMPLE	CLIENTS ID#	DATE	TIME	MATRIX
2041002-01	stormwater quarterly	04/10/2002	0000	Water

REPORT DATE: 04/15/02 09:07 REPORT NUMBER: 2041002 PAGE: 1 OF 1

SAMPLE	ANALYSIS	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	ANALYST	DATE/TIME
SAMPLE ID: stormwater quarterly							
2041002-01	General Bench Analysis						
O & G, TOTAL (HEM)	EPA 1564	TOTAL OIL AND GREASE	ND	mg/L	2.0	CX	04/11/2002 14:48
PHENOLS, TOTAL	EPA 420.1	TOTAL RECOVERABLE PHENOLICS	ND	mg/L	0.050	AK	04/10/2002 15:22
Semi-Volatile Organics by Gas Chromatography							
ENAH 625	EPA 625 (SIM)	ACENAPHTHENE	10.1	ug/L	2.5	RVM	04/11/2002 16:24
		ACENAPHTHYLENE	ND	ug/L	2.5	RVM	04/11/2002 16:24
		ANTHRACENE	3.3	ug/L	2.5	RVM	04/11/2002 16:24
		BENZO(a)ANTHRACENE	7.0	ug/L	2.5	RVM	04/11/2002 16:24
		BENZO(a)PYRENE	19.5	ug/L	2.5	RVM	04/11/2002 16:24
		BENZO(b)FLUORANTHENE	5.1	ug/L	2.5	RVM	04/11/2002 16:24
		BENZO(g,h,i)PERYLENE	7.1	ug/L	2.5	RVM	04/11/2002 16:24
		BENZO(k)FLUORANTHENE	9.7	ug/L	2.5	RVM	04/11/2002 16:24
		CHRYSENE	2.9	ug/L	2.5	RVM	04/11/2002 16:24
		DIBENZO(a,h)ANTHRACENE	ND	ug/L	2.5	RVM	04/11/2002 16:24
		FLUORANTHENE	6.8	ug/L	2.5	RVM	04/11/2002 16:24
		FLUORENE	5.3	ug/L	2.5	RVM	04/11/2002 16:24
		INDENO(1,2,3-cd)PYRENE	4.6	ug/L	2.5	RVM	04/11/2002 16:24
		NAPHTHALENE	ND	ug/L	2.5	RVM	04/11/2002 16:24
		PHENANTHRENE	ND	ug/L	2.5	RVM	04/11/2002 16:24
		PYRENE	9.1	ug/L	2.5	RVM	04/11/2002 16:24
		Surrogate: 2-Fluorobiphenyl	65.6 %	%RECOVERY	50-150		
		Surrogate: Nitrobenzene-d5	86.9 %	%RECOVERY	50-150		
		Surrogate: p-Terphenol-d14	102 %	%RECOVERY	50-150		

REVIEWED BY: 

David Back - QS Manager

This report may not be reproduced except in full.

COLUMBIA INSPECTION, INC 7133 N. Lombard, Portland, OR 97203 Phone: (503) 286-9484 Fax: (503) 286-5355 E-mail: lab@columbiainspection.com

Koppers003131

**KOPPERS
INDUSTRIES**

Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Amos S. Kamerer
Plant Manager

Telephone: 503-286-3681
Fax: 503-285-2831

April 3, 2002

Oregon Department of Environmental Quality
Northwest Region
2020 SW Forth Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of March 2002.

There were no excursions for the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
kamereras@koppers.com

Sincerely,



Amos S. Kamerer

CC: J. Holtrop, City of Portland, Environmental Services
T. Self, KII
M. Cilley, KII

Environmental Department										
Document Control										
<input checked="" type="checkbox"/> Date Received	4/3/02									
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<input type="checkbox"/> Distribution:	<table border="0"> <tr> <td>Leslie</td> <td>John</td> <td>Patrick</td> </tr> <tr> <td>Tim</td> <td>Tracy</td> <td>Linda</td> </tr> <tr> <td>Mary</td> <td>Leather</td> <td></td> </tr> </table>	Leslie	John	Patrick	Tim	Tracy	Linda	Mary	Leather	
Leslie	John	Patrick								
Tim	Tracy	Linda								
Mary	Leather									
<input type="checkbox"/> Copy to:	JAS									
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11:30 2002.04-03 #843 P.02/02

2002.04-03

286 3681

FROM: KOPPERS INDUSTRIES, INC.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road
Portland, OR. 97210-3663

FACILITY NORTHWEST Terminal
LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-18) (17-19)

OR-000077-9
PERMIT NUMBER

001
DISCHARGE NUMBER

47430

101642

☐ Check here if No Discharge

NOTE: Read instructions before completing this form

Form Approved
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
02	02	01	02	03	31
(20-21) (22-23) (24-25)			(26-27) (28-29) (30-31)		

PARAMETER (32-37)		(3 Card Only) (48-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) (54-61)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
FLOW	SAMPLE MEASUREMENT	21,290		GPD					0	N/A	EST.
	PERMIT REQUIREMENT										
TEMPERATURE	SAMPLE MEASUREMENT				9.7	10.5	10.9	°C	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A				
PH	SAMPLE MEASUREMENT				6.2	6.4	6.5	SU	0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASE	SAMPLE MEASUREMENT				<2.0	<2.0	<2.0	mg/L	0	1/7	GRAB
	PERMIT REQUIREMENT				0.0	10.0	15.0				
PHENOLS	SAMPLE MEASUREMENT				<0.05	<0.05	<0.05	mg/L	0	1/30	GRAB
	PERMIT REQUIREMENT				0.0	0.5	0.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	<small>I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1019. (Penalties under these statutes may include fines up to \$10,000 and or imprisonment of not more than 5 years.)</small>	TELEPHONE	DATE		
R. D. Collion		503 286-3681	04	03	02
TYPED OR PRINTED		AREA CODE	NUMBER	YEAR	MO

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: J. Holtrop, City Portland; T. Self, KII; M. Cilley, KII

koppers003134

KOPPERS INDUSTRIES

Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Amos S. Kameron
Plant Manager

Telephone: 503-286-3681
Fax: 503-285-2831

March 1, 2002

Oregon Department of Environmental Quality
Northwest Region
2020 SW Footh Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of February 2002.

There were no excursions for the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
kamereras@koppers.com

Sincerely,



Amos S. Kameron

CC: J. Holtrop, City of Portland, Environmental Services
T. Self, KII
M. Cilley, KII

FROM : KOPPERS INDUSTRIES, INC. 286 3681 2002.03-01 11:31 #780 P.02/02

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road
Portland, OR. 97210-3663

FACILITY NORTHWEST Terminal
LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-18)

(17-19)

OR-000077-9

PERMIT NUMBER

001

DISCHARGE NUMBER

47430

101642

☐ Check here if No Discharge

NOTE: Read Instructions before completing this form

Form Approved
OMB No. 2040-0004
Approval expires 06-31-98

PARAMETER (32-37)	X	(3 Card Only) (46-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (36-46) QUALITY OR CONCENTRATION (46-53) (54-61)				NO. EX (52-53)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS				
FLOW	SAMPLE MEASUREMENT	15,714		GPD					0	N/A	EST.	
	PERMIT REQUIREMENT											
TEMPERATURE	SAMPLE MEASUREMENT				8.3	10.5	12.9	° C	0	1/7	GRAB	
	PERMIT REQUIREMENT				N/A	N/A	N/A					
PH	SAMPLE MEASUREMENT				6.4	6.5	6.6	SU	0	1/7	GRAB	
	PERMIT REQUIREMENT				6.0		9.0					
OIL & GREASE	SAMPLE MEASUREMENT				0.0	5.8	11.6	mg/L	0	1/7	GRAB	
	PERMIT REQUIREMENT				0.0	10.0	15.0					
PHENOLS	SAMPLE MEASUREMENT				<0.05	<0.05	<0.05	mg/L	0	1/30	GRAB	
	PERMIT REQUIREMENT				0.0	0.5	0.7					
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY OBTAIN AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR OBTAINING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. § 1001 AND 18 U.S.C. § 1003. (Penalties under this statute may include fines up to \$10,000 and or maximum imprisonment of between 5 months and 5 years.)										
R. D. Collion												
TYPED OR PRINTED		A. E. Kameron SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT										
COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)		TELEPHONE		DATE		AREA CODE		NUMBER		YEAR	MO	DAY
		503 286-3681		02 03 01								

CC: J. Holtrop, City Portland; T. Self, KII; M. Cilley, KII

**KOPPERS
INDUSTRIES****Amos S. Kamerer**
Plant Manager**Koppers Industries, Inc.**
7540 N.W. St. Helens Road
Portland, OR 97210-3663Telephone: 503-286-3681
Fax: 503-286-2831

February 4, 2002

Oregon Department of Environmental Quality
Northwest Region
2020 SW Footh Ave., Suite 400
Portland, Oregon 97201-4987Attention: Elliot J. Zais
Sr. Environmental EngineerReference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of January 2002. This includes the first quarter PAH test results.

There were no excursions for the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
kamereras@koppers.com

Sincerely,


Amos S. KamererCC: J. Holtrop, City of Portland, Environmental Services
T. Self, KII
M. Cilley, KII

Page		Department	
Patient Control			
<input checked="" type="checkbox"/>	Date Received	2/4/02	
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<input type="checkbox"/>	Destruction:	Leslie	Patrick
		Tina	Linda
			Leahner
<input type="checkbox"/>	Copy to:		
<input checked="" type="checkbox"/>	File	File:	10

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME Koppers Industries, Inc.
ADDRESS 7540 NW Saint helens Road
Portland, Oregon 97210-3663

FACILITY NW terminal
LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OR-000077-9 PERMIT NUMBER
001 DISCHARGE NUMBER

47430

101642

Form Approved
OMB No. 2040-0004

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
02	01	01		02	01	31

FROM

TO

NOTE: Read Instructions before completing this form.

PARAMETER	X	QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	56,955			GPD				0	N/A	EST.
	PERMIT REQUIREMENT										
TEMPERATURE	SAMPLE MEASUREMENT				4.5	8.7	13.1	°C	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A				
PH	SAMPLE MEASUREMENT				6.4	6.7	7.3	SU	0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASE	SAMPLE MEASUREMENT				0.0	4.2	7.2	mg/L	0	1/7	GRAB
	PERMIT REQUIREMENT				0.0	10.0	15.0				
PHENOLS	SAMPLE MEASUREMENT				0.10	0.10	0.10	mg/L	0	1/30	GRAB
	PERMIT REQUIREMENT				0.0	0.5	0.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE	DATE			
R. D. Collins		503-286-3681	02	01	04	
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

STATEMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

The first quarter PAH test results are attached.

CC: J. Holtrop, City Portland; T. Self, KII; M. Cilley, KII

CERTIFICATE OF ANALYSIS

CLIENT: KOPPERS INDUSTRIES, INC.
7540 NW ST. HELENS ROAD
PORTLAND OR 97210-3663

PHONE: (503) 286-3681
FAX: (503) 285-2831

DATE SUBMITTED: 01/07/2002

PROJECT NAME: STORMWATER TANKS- QUARTERLY

CI SAMPLE	CLIENTS ID#	DATE	TIME	MATRIX	DESCRIPTION
20029-001		01/07/2002	0900	Water	Stormwater Tanks

REPORT DATE: 01/08/2002 REPORT NUMBER: 20029 REV. 001 PAGE: 1 OF 1

SAMPLE	ANALYSIS	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	ANALYST DATE/TIME
Stormwater Tanks						
20029-001	O & G; TOTAL (HEM) EPA 1664	TOTAL OIL AND GREASE	7.2	mg/L	2	Gale S 01/08/2002
Stormwater Tanks						
20029-001	PHENOLS, TOTAL EPA 420.1	TOTAL RECOVERABLE PHENOLICS	0.09	PPM	0.05	Abigail K 01/08/2002
Stormwater Tanks						
20029-001	PNAH 2 EPA 625 (SIM)	ACENAPHTHENE	31.10	ug/L	0.2475	Robert M. 01/08/2002
		ACENAPHTHYLENE	4.97	ug/L	0.2475	
		ANTHRACENE	8.53	ug/L	0.2475	
		BENZO (A) ANTHRACENE	3.86	ug/L	0.2475	
		BENZO (A) PYRENE	4.47	ug/L	0.2475	
		BENZO (B) FLUORANTHENE	6.80	ug/L	0.2475	
		BENZO (GHI) PERYLENE	3.65	ug/L	0.2475	
		BENZO (K) FLUORANTHENE	3.01	ug/L	0.2475	
		CHRYSENE	4.23	ug/L	0.2475	
		DIBENZO (AH) ANTHRACENE	2.84	ug/L	0.2475	
		FLUORANTHENE	10.86	ug/L	0.2475	
		FLUORENE	21.17	ug/L	0.2475	
		INDENO (1,2,3-CD) PYRENE	3.97	ug/L	0.2475	
		NAPHTHALENE	9.30	ug/L	0.2475	
		PHENANTHRENE	29.48	ug/L	0.2475	
		PYRENE	10.51	ug/L	0.2475	
			158.75			
		SURROGATE	87		% RECOVERY 50%-150%	

REVIEWED BY: David Back

David Back - QS Manager

**KOPPERS
INDUSTRIES**

Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Amos S. Kamerer
Plant Manager

Telephone: 503-288-3881
Fax: 503-285-2831

January 3, 2002

Oregon Department of Environmental Quality
Northwest Region
2020 SW Forth Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of December 2001.

There were no excursions for the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
kamereras@koppers.com

Sincerely,



Amos S. Kamerer

CC: J. Holtrop, City of Portland, Environmental Services
T. Self, KII
M. Cilley, KII

Environmental Department Document Control										
<input checked="" type="checkbox"/> Date Received	1/3/02									
<input checked="" type="checkbox"/> Logged:	1/2/02 (initials/date)									
<input type="checkbox"/> Exceptions:										
<input type="checkbox"/> Approved:	(initials, date)									
<input type="checkbox"/> Distribution:	<table border="0"> <tr> <td>Leslie</td> <td>John</td> <td>Patrick</td> </tr> <tr> <td>Tim</td> <td>Traci</td> <td>Linda</td> </tr> <tr> <td>Mary</td> <td>Heather</td> <td></td> </tr> </table>	Leslie	John	Patrick	Tim	Traci	Linda	Mary	Heather	
Leslie	John	Patrick								
Tim	Traci	Linda								
Mary	Heather									
<input type="checkbox"/> Copy to:										
<input checked="" type="checkbox"/> File	Date: 1/8/02									

PERMITTEE NAME/ADDRESS (Include Facility Name/Location (if different))

NAME Koppers Industries, Inc.
ADDRESS 7540 NW Saint Helena Road
Portland, Oregon 97210-3663

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

OR-000077-9
PERMIT NUMBER

001
DISCHARGE NUMBER

47430

101642

FACILITY NW Terminal
LOCATION Multnomah County

MONITORING PERIOD						
FROM				TO		
YEAR	MO	DAY		YEAR	MO	DAY
01	12	01		01	12	31

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE		
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS					
FLOW	SAMPLE MEASUREMENT	21,290		GPD					0	N/A	EST.		
	PERMIT REQUIREMENT												
TEMPERATURE	SAMPLE MEASUREMENT				7.9	9.1	10.8		0	1/7	GRAB		
	PERMIT REQUIREMENT				N/A	N/A	N/A	°C					
PH	SAMPLE MEASUREMENT				6.1	6.6	6.8		0	1/7	GRAB		
	PERMIT REQUIREMENT				6.0		9.0	SU					
OIL & GREASE	SAMPLE MEASUREMENT				2.3	5.1	7.5		0	1/7	GRAB		
	PERMIT REQUIREMENT				<2.0	10	15	MG/L					
PHENOLS	SAMPLE MEASUREMENT				<0.05	<0.05	<0.05		0	1/30	GRAB		
	PERMIT REQUIREMENT				<0.05	.5	.7	MG/L					
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.							TELEPHONE		DATE		
R. D. Collins									503-286-3681		02	01	03
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT							AREA CODE	NUMBER	YEAR	MO	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: J. Holtrop, City of Portland, T. Self - KII, M. Cilley - KII

**KOPPERS
INDUSTRIES**

Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Amos S. Kameron
Plant Manager

Telephone: 503-286-3681
Fax: 503-285-2831

December 4, 2001

Oregon Department of Environmental Quality
Northwest Region
2020 SW Forth Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

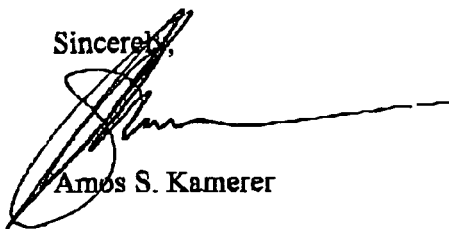
Dear Mr. Zais,

Attached please find subject report for the month of November 2001.

There were no excursions for the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
kamereras@koppers.com

Sincerely,



Amos S. Kameron

CC: J. Holtrop, City of Portland, Environmental Services
T. Self, KII
M. Cilley, KII

Koppers003145

#621 P.02/02 08:58 2001, 12-04 286 3681 FROM: KOPPERS INDUSTRIES, INC.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME Koppers Industries, Inc.
ADDRESS 7540 NW Saint Helens Road
Portland, Oregon 97210-3663

CITY NW Terminal
COUNTY Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OR-000077-9
PERMIT NUMBER

001
DISCHARGE NUMBER

47430
101642

Form Approved
OMB No. 2040-0004

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
01	11	01	TO	01	11	30

FROM

NOTE: Read Instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	29,333		GPD					0	N/A	EST.
	PERMIT REQUIREMENT										
TEMP	SAMPLE MEASUREMENT				9.6	11.7	14.6	°C	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A				
PH	SAMPLE MEASUREMENT				6.3	6.9	8.6	SU	0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL & grease	SAMPLE MEASUREMENT				<2.0	3.4	9.5	MG/L	0	1/7	GRAB
	PERMIT REQUIREMENT				<2.0	10	15				
BENOLIS	SAMPLE MEASUREMENT				<0.05	<0.05	<0.05	MG/L	0	1/30	GRAB
	PERMIT REQUIREMENT				<0.05	.5	.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

D. Collins, VP

TYPED OR PRINTED

I Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

APPROB S. Kamerer, Plt. Mgr.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

503-286-3681

AREA CODE

NUMBER

DATE

01 12 04

YEAR MO DAY

REMARKS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

CC: J. Holtrop, City of Portland; T. I: Self, KII: M. A. Cilley, KII

**KOPPERS
INDUSTRIES**

Amos S. Kamerer
Plant Manager

Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Telephone: 503-286-3681
Fax: 503-286-2831

November 1, 2001

Oregon Department of Environmental Quality
Northwest Region
2020 SW Footh Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

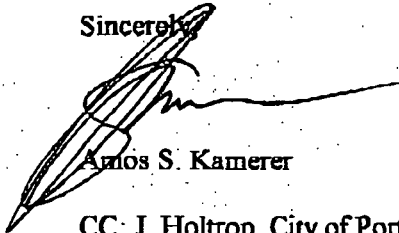
Dear Mr. Zais,

Attached please find subject report for the month of October 2001.

The forth quarter PAH results are also enclosed.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
kamereras@koppers.com

Sincerely,



Amos S. Kamerer

CC: J. Holtrop, City of Portland, Environmental Services
T. Self, KII
M. Cilley, KII

PERMITTEE NAME/ADDRESS (include Facility Name, Location if Different)
NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road
Portland, OR 97210

FACILITY NW Terminal
LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OR-000077-9
PERMIT NUMBER

001
DISCHARGE NUMBER

47430
101642

Form Approved
OMB No. 2040-0004

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
01 10 01 01 10 31

NOTE: Read Instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	14,194		GPD					0	N/A	EST.
	PERMIT REQUIREMENT										
TEMP	SAMPLE MEASUREMENT				12.1	14.1	16.4	C	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A				
pH	SAMPLE MEASUREMENT				6.0	6.4	6.8	SU	0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
Oil & Grease	SAMPLE MEASUREMENT				<2.0	3.1	6.2	MG/L	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	10	15				
Phenols	SAMPLE MEASUREMENT				<0.05	<0.05	<0.05	MG/L	0	1/30	GRAB
	PERMIT REQUIREMENT				N/a	.5	.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

J.D. Collins, VP

TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Principal Executive Officer or Authorized Agent

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

503 286-3681
AREA CODE NUMBER

DATE

01 11 01
YEAR MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

The fourth quarter results are attached.

cc: J. Holtrop-City of Portland; T.L. Self-KII; M.A. Cilley-KII



CERTIFICATE OF ANALYSIS

CLIENT: KOPPERS INDUSTRIES, INC.
7540 NW ST. HELENS ROAD
PORTLAND OR 97210-3663

PHONE: (503) 286-3681
FAX: (503) 285-2831

DATE SUBMITTED: 10/08/2001

PROJECT NAME: QUARTERLY STORMWATER TANK TEST

CI SAMPLE	CLIENTS ID#	DATE	TIME	MATRIX	DESCRIPTION
11506-001		10/08/2001	0900	Water	Stormwater Tanks

REPORT DATE: 10/10/2001 REPORT NUMBER: 11506 PAGE: 1 OF 1

SAMPLE	ANALYSIS	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	ANALYST
Stormwater Tanks						
11506-001	O & G, TOTAL (HEM) EPA 1664	TOTAL OIL AND GREASE	6.2	mg/L	2	Gale S 10/09/2001
Stormwater Tanks						
11506-001	PHENOLS, TOTAL EPA 420.1	TOTAL RECOVERABLE PHENOLICS	ND	PPM	0.05	Abigail K 10/09/2001
Stormwater Tanks						
11506-001	PNAH 2 EPA 625 (SIM)	ACENAPHTHRENE	ND	ug/L	0.2655	Robert M 10/10/2001
		ACENAPHTHYLENE	ND	ug/L	0.2655	
		ANTHRACENE	ND	ug/L	0.2655	
		BENZO(A)ANTHRACENE	ND	ug/L	0.2655	
		BENZO(A)PYRENE	ND	ug/L	0.2655	
		BENZO(B)FLUORANTHRENE	0.35	ug/L	0.2655	
		BENZO(G,I)PERYLENE	0.27	ug/L	0.2655	
		BENZO(K)FLUORANTHRENE	ND	ug/L	0.2655	
		CHRYSENE	ND	ug/L	0.2655	
		DIBENZO(AH)ANTHRACENE	ND	ug/L	0.2655	
		FLUORANTHRENE	ND	ug/L	0.2655	
		FLUORENE	ND	ug/L	0.2655	
		INDENO(1,2,3-CD)PYRENE	0.27	ug/L	0.2655	
		NAPHTHALENE	0.28	ug/L	0.2655	
		PHENANTHRENE	ND	ug/L	0.2655	
		PYRENE	ND	ug/L	0.2655	
		SURROGATE	93	% RECOVERY 50%-150%		

REVIEWED BY:

David Back - QS Manager

**KOPPERS
INDUSTRIES**

Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Amos S. Kamerer
Plant Manager

Telephone: 503-286-3681
Fax: 503-286-2801

October 2, 2001

Oregon Department of Environmental Quality
Northwest Region
2020 SW Forth Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of September 2001.

The third quarter PAH results are also enclosed.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
kamereras@koppers.com

Sincerely,



Amos S. Kamerer

CC: J. Holtrop, City of Portland, Environmental Services
T. Self, KII
M. Cilley, KII

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME Koppers Industries, INC.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

ADDRESS 7540 NW Saint Helens Road
Portland, OR 97210

OR-000077-9
PERMIT NUMBER

001
DISCHARGE NUMBER

47430
101642

ACTIVITY NW Terminal
LOCATION Multnomah County

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
01 09 01 01 09 30

NOTE: Read Instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Flow	SAMPLE MEASUREMENT	7,333		GPD					0	N/A	EST.
	PERMIT REQUIREMENT										
Temp	SAMPLE MEASUREMENT				23.2	23.5	23.8	C	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A				
pH	SAMPLE MEASUREMENT				6.4	6.5	6.5	SU	0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
Oil & Grease	SAMPLE MEASUREMENT				3.4	3.4	3.4	MG/L	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	10	15				
Phenols	SAMPLE MEASUREMENT				<0.05	<0.05	<0.05	MG/L	0	1/30	GRAB
	PERMIT REQUIREMENT				N/A	.5	.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

I Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Amos S. Kamerer, Plt. Mgr.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

L.D. Collins, VP

TYPED OR PRINTED

503 AREA CODE 286-3681 NUMBER 01 10 02 YEAR MO DAY

REMARKS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Third quarter PAH results are attached.

cc: J. Holtrop-City of Portland; T.I. Self-KII; M. Cilley-KII



CERTIFICATE OF ANALYSIS

ORIGINAL

CLIENT: KOPPERS INDUSTRIES, INC.
7540 NW ST. HELENS ROAD
PORTLAND OR 97210-3663

PHONE: (503) 286-3681
FAX: (503) 285-2831

DATE SUBMITTED: 09/04/2001

PROJECT NAME: QUARTERLY STORMWATER TEST

CI SAMPLE	CLIENTS ID#	DATE	TIME	MATRIX	DESCRIPTION
11341-001		09/04/2001	1000	Water	Stormwater Tanks

REPORT DATE: 09/06/2001

REPORT NUMBER: 11341

PAGE: 1 OF 1

SAMPLE	ANALYSIS	PARAMETER	RESULTS	UNITS	DETECTION LIMIT	ANALYST
Stormwater Tanks						
11341-001	O & G, TOTAL (HEM) EPA 1664	TOTAL OIL AND GREASE	3.4	mg/L	2	Gale S 09/04/2001
Stormwater Tanks						
11341-001	PHENOLS, TOTAL EPA 420.1	TOTAL RECOVERABLE PHENOLICS	ND	PPM	0.05	Abigail K 09/05/2001
Stormwater Tanks						
11341-001	PNAH 2 EPA 625 (SIM)	ACENAPHTHENE	ND	ug/L	0.201	Robert M 09/05/2001
		ACENAPHTHYLENE	ND	ug/L	0.201	
		ANTHRACENE	ND	ug/L	0.201	
		BENZO (A) ANTHRACENE	0.19	ug/L	0.201	
		BENZO (A) PYRENE	0.21	ug/L	0.804	
		BENZO (B) FLUORANTHENE	0.51	ug/L	0.804	
		BENZO (GHI) PERYLENE	0.34	ug/L	2.01	
		BENZO (K) FLUORANTHENE	0.23	ug/L	0.804	
		CHRYSENE	0.21	ug/L	0.201	
		DIBENZO (AH) ANTHRACENE	ND	ug/L	1.206	
		FLUORANTHENE	0.29	ug/L	0.201	
		FLUORENE	ND	ug/L	0.201	
		INDENO (1,2,3-CD) PYRENE	0.33	ug/L	1.608	
		NAPHTHALENE	ND	ug/L	0.201	
		PHENANTHRENE	ND	ug/L	0.201	
		PYRENE	0.30	ug/L	0.201	
		SURROGATE	82	% RECOVERY 50%-150%		

REVIEWED BY:

David Back

David Back - QS Manager

**KOPPERS
INDUSTRIES**

Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3683

Amos S. Kameron
Plant Manager

Telephone: 503-285-3681
Fax: 503-285-2831

September 4, 2001

Oregon Department of Environmental Quality
Northwest Region
2020 SW Footh Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

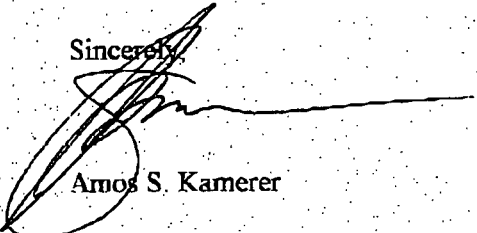
Dear Mr. Zais,

Attached please find subject report for the month of August 2001.

There were no discharges during the month, thus there were no excursions.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
kameronas@koppers.com

Sincerely,



Amos S. Kameron

CC: J. Holtrop, City of Portland, Environmental Services
T. Self, KII
M. Cilley, KII

ERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
AME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road
Portland, OR 97210

ACTIVITY NW Terminal
LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OR-000077-9
PERMIT NUMBER

001
DISCHARGE NUMBER

47430
101642

Form Approved
OMB No. 2040-0004

MONITORING PERIOD

FROM YEAR 01 MO 08 DAY 01 TO YEAR 01 MO 08 DAY 31

NOTE: Read Instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Flow	SAMPLE MEASUREMENT	0		CPD					0	N/A	EST.
	PERMIT REQUIREMENT										
Temp	SAMPLE MEASUREMENT							C	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A				
pH	SAMPLE MEASUREMENT				6.0		9.0	SU	0	1/7	GRAB
	PERMIT REQUIREMENT										
Oil & Grease	SAMPLE MEASUREMENT				N/A	10	15	MG/L	0	1/7	GRAB
	PERMIT REQUIREMENT										
Phenols	SAMPLE MEASUREMENT				N/A	.5	.7	MG/L	0	1/30	GRAB
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE	DATE		
R.D. Collins, VP TYPED OR PRINTED		Amos S. Kemerer, Plt. Mgr. SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	503, 286-3681 AREA CODE NUMBER	01 YEAR	09 MO

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

**KOPPERS
INDUSTRIES**

Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Amos S. Kamerer
Plant Manager

Telephone: 503-286-3681
Fax: 503-285-2831

August 21, 2001

Oregon Department of Environmental Quality
Northwest Region
2020 SW Forth Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

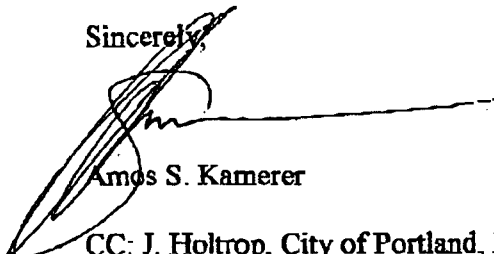
Dear Mr. Zais,

Attached please find subject report for the month of July 2001.

There were no discharges during the month, thus there were no excursions.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
kamereras@koppers.com

Sincerely,



Amos S. Kamerer

CC: J. Holtrop, City of Portland, Environmental Services
T. Self, KII
M. Cilley, KII

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road
Portland, OR 97210

FACILITY NW Terminal
LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OR-000077-9

PERMIT NUMBER

001

DISCHARGE NUMBER

47430

101642

Form Approved.
OMB No. 2040-0004

MONITORING PERIOD

FROM YEAR 01 MO 07 DAY 01 TO YEAR 01 MO 07 DAY 31

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Flow	SAMPLE MEASUREMENT	0		GPD				C	0	N/A	EST.
	PERMIT REQUIREMENT										
Temp	SAMPLE MEASUREMENT							C	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A				
pH	SAMPLE MEASUREMENT							SU	0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
Oil & Grease	SAMPLE MEASUREMENT							MG/L	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	10	15				
Phenols	SAMPLE MEASUREMENT							MG/L	0	1/30	GRAB
	PERMIT REQUIREMENT				N/A	.5	.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

D. Collins, VP

TYPED OR PRINTED

I Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Amos S. Kamerer, Plt. Mgr.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503 286-3681

AREA CODE NUMBER

01 08 21

YEAR MO DAY

REMARKS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Nothing to report There were no discharges during the month.

cc: J. Holtrop-City of Portland; T.I. Self-KII; M.A. Cilley-KII

**KOPPERS
INDUSTRIES**

Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Amos S. Kamerer
Plant Manager

Telephone: 503-288-3681
Fax: 503-285-2831

July 3, 2001

Oregon Department of Environmental Quality
Northwest Region
2020 SW Footh Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of June 2001.

There were no excursions for the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
kamereras@koppers.com

Sincerely,



Amos S. Kamerer

CC: J. Holtrop, City of Portland, Environmental Services
T. Self, KII
M. Cilley, KII

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
AME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road
Portland, OR 97210

ACTIVITY NW Terminal
LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMIT NUMBER	006	47430
DISCHARGE NUMBER		101642

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
FROM 01	06	01	TO 01	06	30

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Flow	SAMPLE MEASUREMENT	7,333		GPD					0	N/A	EST.
	PERMIT REQUIREMENT										
Temp	SAMPLE MEASUREMENT				17.8	17.9	17.9	C	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A				
pH	SAMPLE MEASUREMENT				6.5	6.5	6.5	SU	0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
Oil & Grease	SAMPLE MEASUREMENT				2.0	2.0	2.0	MG/L	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	10	15				
Phenols	SAMPLE MEASUREMENT				<0.05	<0.05	<0.05	MG/L	0	1/30	GRAB
	PERMIT REQUIREMENT				N/A	.5	.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

D. Collins, VP

TYPED OR PRINTED

I Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Amos S. Kamerer, Plt. Mgr.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503
AREA CODE

286-3681
NUMBER

01
YEAR

07
MO

03
DAY

REMARKS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

cc: J. Holtrop-City of Portland, T.I. Self-KII, M.A. Cilley-KII

KOPPERS INDUSTRIES

Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3553

Amos S. Kameron
Plant Manager

Telephone: 503-286-3681
Fax: 503-285-2831

June 4, 2001

Oregon Department of Environmental Quality
Northwest Region
2020 SW Forth Ave., Suite 400
Portland, Oregon 97201-4987

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

Attached please find subject report for the month of May 2001.

There were no excursions for the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
kamereras@koppers.com

Sincerely,



Amos S. Kameron

CC: J. Holtrop, City of Portland, Environmental Services
T. Self, KII
M. Cilley, KII

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road
Portland, OR 97210

FACILITY NW Terminal
LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMIT NUMBER	005
DISCHARGE NUMBER	47430

47430
101642

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	01	05	01		01	05	31

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	14,194		GPD					0	N/A	EST.
	PERMIT REQUIREMENT										
TEMP	SAMPLE MEASUREMENT				12.4	17.9	22.3	C	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A				
pH	SAMPLE MEASUREMENT				6.5	6.7	6.9	SU	0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL and GREASE	SAMPLE MEASUREMENT				2.3	2.8	3.3	MG/L	0	1/7	GRAB
	PERMIT REQUIREMENT				0	10	15				
PHENOLS	SAMPLE MEASUREMENT				<0.05	<0.05	<0.05	MG/L	0	1/30	GRAB
	PERMIT REQUIREMENT				0	.5	.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

D. Collins, VP

TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Amos S. Kemerer, Plt Mgr
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503
AREA CODE

286-3681

NUMBER

01

06

04

YEAR

MO

DAY

REMARKS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

cc: J. Holtrop-City of Portland; T.I. Self-KII; M. Cilley-KII

KOPPERS INDUSTRIES

Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3683

Amos S. Kameron
Plant Manager

Telephone: 503-286-3681
Fax: 503-285-2831

May 1, 2001

Oregon Department of Environmental Quality
Northwest Region
2020 SW Footh Ave., Suite 400
Portland, Oregon 97202

Attention: Elliot J. Zais
Sr. Environmental Engineer

Reference: NPDES Permit No. 101642
Discharge Monitoring Report

Dear Mr. Zais,

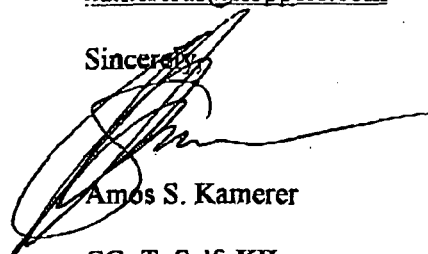
Attached please find subject report for the month of April 2001.

The second quarter PAH sample data is attached.

There were no excursions for the month.

If you have any questions, I can be reached at # 503/286-3681 or via e-mail at:
kamereras@koppers.com

Sincerely,



Amos S. Kameron

CC: T. Self, KII
M. Cilley, KII

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
AME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road
Portland, OR 97210

Facility NW Terminal

LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER

004

DISCHARGE NUMBER

47430

101642

Form Approved
OMB No. 2040-0004

MONITORING PERIOD

FROM YEAR MO DAY 01 04 01 TO YEAR MO DAY 01 04 30

NOTE: Read Instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	14,667		GPD					0	N/A	EST.
	PERMIT REQUIREMENT										
Temp	SAMPLE MEASUREMENT				10.9	12.3	14.4		0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A				
pH	SAMPLE MEASUREMENT				6.3	6.5	6.6		0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
Oil & Grease	SAMPLE MEASUREMENT				4.7	5.0	5.3		0	1/7	GRAB
	PERMIT REQUIREMENT				0	10	15				
Phenols	SAMPLE MEASUREMENT				.14	.14	.14		0	1/30	GRAB
	PERMIT REQUIREMENT				0	.5	.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

I Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Amos B. Kamerer, Plt. Mgr.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

AREA CODE

NUMBER

YEAR

MO

DAY

D. Collins, VP

TYPED OR PRINTED

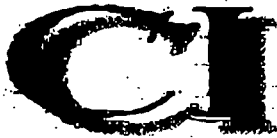
REMARKS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

second quarter results are attached.

cc: J. Holtrop, City of Portland; T.I. Self-KIL M. Cilley-R

Form 3320-1 (REV 3/99) Previous editions may be used.

THIS IS A 4 PART FORM PAGE 1 OF 1



CERTIFICATE OF ANALYSIS

PARTIAL REPORT

CLIENT: KOPPERS INDUSTRIES, INC.
7540 NW ST. HELENS ROAD
PORTLAND, OR 97210-3663

PHONE: (503) 286-3681
FAX: (503) 285-2831

DATE SUBMITTED: 04/10/2001

PROJECT NAME:

CT SAMPLE	CLIENTS ID#	DATE	TIME	MATRIX	DESCRIPTION
10591-001		04/10/2001	1500	Water	STORM WATER TANK
10591-001		04/10/2001	1500	Water	STORM WATER TANK
10591-001		04/10/2001	1500	Water	STORM WATER TANK

REPORT DATE: 04/12/2001

REPORT NUMBER: 10591

PAGE: 1 OF 1

BRIDGE	ANALYSIS	PARAMETER	RESULT	UNIT	DETECTION LIMIT	ANALYST
STORM WATER TANK						
10591-001	O & G TOTAL (REM) EPA 1664	TOTAL OIL AND GREASE	4.7	mg/L	2	Gale S. 04/11/2001
STORM WATER TANK						
10591-001	PM10 2 EPA 625 (SIM)	ACENAPHTHENE	9.80	ug/L	0.25	Robert M. 04/12/2001
		ACENAPHTHYLENE	0.87	ug/L	0.25	
		ANTHRACENE	7.41	ug/L	0.25	
		BENZO(A)ANTHRACENE	3.69	ug/L	0.25	
		BENZO(A)PYRENE	8.02	ug/L	0.25	
		BENZO(B)FLUORANTHENE	3.85	ug/L	0.25	
		BENZO(GHI)PERYLENE	3.61	ug/L	0.25	
		BENZO(K)FLUORANTHENE	4.43	ug/L	0.25	
		CHRYSENE	3.16	ug/L	0.25	
		DIBENZO(PH)ANTHRACENE	2.30	ug/L	0.25	
		FLUORANTHENE	6.24	ug/L	0.25	
		FLUORENE	10.13	ug/L	0.25	
		INDENO(1,2,3-CD)PYRENE	3.18	ug/L	0.25	
		NAPHTHALENE	ND	ug/L	0.25	
		PHENANTHRENE	1.35	ug/L	0.25	
		PYRENE	6.28	ug/L	0.25	
		SURROGATE	95	% RECOVERY	50%-150%	
STORM WATER TANK						
10591-001	PHENOLS, TOTAL EPA 420.1	TOTAL RECOVERABLE PHENOLICS	0.14	PPM	0.05	Dick R. 04/11/2001

** Draft Report **

Data in this report may not be complete. This report has not undergone final quality assurance review

COLUMBIA INSPECTION, INC. 7133 N. Lombard, Portland, OR 97203 Phone: (503) 288-8484 Fax: (503) 288-6355 E-mail: info@columbiainspection.com

Koppers003163

FROM : KOPPERS INDUSTRIES, INC. 286 3681 1901.04-03 14:10 #114 P.01/01

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
ME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road
Portland, OR 97210

CILITY NW Terminal
LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Consent Approved
OMB No. 2040-0004

PERMIT NUMBER	003	DISCHARGE NUMBER	47430
---------------	-----	------------------	-------

47430
101642

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	01	03	01		01	03	31

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT		21,290	GPD					0	N/A	EST.
	PERMIT REQUIREMENT										
TEMP	SAMPLE MEASUREMENT				10.7	11.6	13.4	C	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A				
pH	SAMPLE MEASUREMENT				6.3	6.6	6.8	SU	0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASE	SAMPLE MEASUREMENT				3.1	3.6	4.3	MG/L	0	1/7	GRAB
	PERMIT REQUIREMENT				0	10	15				
PHENOLS	SAMPLE MEASUREMENT				<.05	<.05	<.05	MG/L	0	1/30	GRAB
	PERMIT REQUIREMENT				0	.5	.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE
D. Collins, VP TYPED OR PRINTED		503 286-3681 AREA CODE NUMBER	01 04 03 YEAR MO DAY	
VIMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)				

cc: J. Holtrop-City of Portland; T.I. Self-KII; M.A. Cilley-KII

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road
Portland, OR 97210

CITY NW Terminal
COUNTY Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMIT NUMBER	002	47430
	DISCHARGE NUMBER	101642

MONITORING PERIOD						
YEAR	MO	DAY	FROM	YEAR	MO	DAY
01	02	01	TO	01	02	28

NOTE: Read Instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT		7.857	GPD					0	N/A	EST.
	PERMIT REQUIREMENT										
TEMP	SAMPLE MEASUREMENT				7.7	7.9	8.1	C	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A				
pH	SAMPLE MEASUREMENT				6.6	6.7	6.8	SU	0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASE	SAMPLE MEASUREMENT				5.4	5.4	5.4	MG/L	0	1/7	GRAB
	PERMIT REQUIREMENT				0	10	15				
PHENOLS	SAMPLE MEASUREMENT				.1	.1	.1	MG/L	0	1/30	GRAB
	PERMIT REQUIREMENT				0	.5	.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

J.D. Collins, VP

TYPED OR PRINTED

I Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Andrew S. Kameron, Plt. Mgr.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503 286-3681

AREA CODE

NUMBER

01

03

01

YEAR

MO

DAY

REMARKS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

cc: J. Holtrop-City of Portland, T.I. Self-KII, M. Cilley-KII

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME Koppers Industries, Inc.

ADDRESS 540 NW Saint Helens Road
Portland, OR 97210

FACILITY NW Terminal
LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004

PERMIT NUMBER

001
DISCHARGE NUMBER

47430

101642

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
01 01 01 01 01 31

NOTE: Read Instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	14,194		GPD					0	N/A	EST.
	PERMIT REQUIREMENT										
TEMP	SAMPLE MEASUREMENT				7.3	7.7	8.1	C	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A				
pH	SAMPLE MEASUREMENT				6.5	6.5	6.5	SU	0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASE	SAMPLE MEASUREMENT				N.D.	1.6	3.1	MG/L	0	1/7	GRAB
	PERMIT REQUIREMENT				0	10	15				
PHENOLS	SAMPLE MEASUREMENT				N.D.	N.D.	N.D.	MG/L	0	1/30	GRAB
	PERMIT REQUIREMENT				0	.5	.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
R.D. Collins, VP
TYPED OR PRINTED

I Certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
Thomas S. Kameron, Plt. Mgr.

TELEPHONE
503/286-3681
DATE
01 02 06
YEAR MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

First quarter PAH results are attached.

cc: J. Holtrop-City of Portland, T.I. Self-KII,

*A Form 3320-1 (REV 3/89) Previous editions may be used.

THIS IS A 4-PART FORM PAGE 1 OF 1



CERTIFICATE OF ANALYSIS

CLIENT: KOPPERS INDUSTRIES, INC.
7540 NW ST. HELENS ROAD
PORTLAND OR 97210-3663

PHONE: (503) 286-3681
FAX: (503) 285-2831

DATE SUBMITTED: 01/11/20

PROJECT NAME: STORM WATER TANKS

CI SAMPLE	CLIENTS ID#	DATE	TIME	MATRIX	DESCRIPTION
10068-001		01/11/2001	0800	Water	STORM WATER GRAB SAMPLE

REPORT DATE: 01/17/2001 REPORT NUMBER: 10068 PAGE: 1 OF 1

SAMPLE	ANALYSIS	PARAMETER	RESULTS	UNITS	DETECTION	
					LDLCT	ANALYST
STORM WATER GRAB SAMPLE						
10068-001	O & G TOTAL (HEM) EPA 1664	TOTAL OIL AND GREASE	ND	mg/L	2	Dick R 01/12/2001
	PHENOLS, TOTAL EPA 420.1	TOTAL RECOVERABLE PHENOLICS	ND	mg/L	0.05	Jeremy B 01/12/2001
PNAH 2 EPA 625 (SIM)	ACENAPHTHENE	18	ug/L	0.05	Robert M 01/12/2001	
	ACENAPHTHYLENE	6.0	ug/L	0.05		
	ANTHRACENE	4.4	ug/L	0.05		
	BENZO(A)ANTHRACENE	5.8	ug/L	0.05		
	BENZO(A)PYRENE	5.6	ug/L	0.2		
	BENZO(B)FLUORANTHENE	6.5	ug/L	0.2		
	BENZO(GHI)PERYLENE	6.1	ug/L	0.5		
	BENZO(K)FLUORANTHENE	5.3	ug/L	0.2		
	CHRYSENE	5.6	ug/L	0.05		
	DIBENZO(AH)ANTHRACENE	4.4	ug/L	0.3		
	FLUORANTHENE	9.6	ug/L	0.05		
	FLUORENE	13	ug/L	0.05		
	INDENO(1, 2, 3-CD) PYRENE	5.6	ug/L	0.4		
	NAPHTHALENE	ND	ug/L	0.05		
	PHENANTHRENE	12	ug/L	0.05		
	PYRENE	8.5	ug/L	0.05		
SURROGATE		103	% RECOVERY 50%-150%			

REVIEWED BY: 

Martin Bittle - Quality Manager

COLUMBIA INSPECTION, INC. 7133 N. Lombard, Portland, OR 97203 Phone: (503) 286-6484 Fax: (503) 286-5355 E-mail: lab@columbiainspection.com



CERTIFICATE OF ANALYSIS

PARTIAL REPORT

CLIENT: KOPPERS INDUSTRIES, INC.
7540 NW ST. HELENS ROAD
PORTLAND, OR 97210-3663

PHONE: (503) 286-3681
FAX: (503) 285-2891

DATE SUBMITTED: 01/29/2001

PROJECT NAME: STORMWATER TANKS

CI SAMPLE	CLIENT ID#	DATE	TIME MATRIX	DESCRIPTION
10176-001		01/29/2001	1130 Water	Stormwater Tanks

REPORT DATE: 01/30/2001 REPORT NUMBER: 10176 PAGE: 1 OF 1

SAMPLE	ANALYSIS	PARAMETER	RESULT	UNIT	DETECTION		ANALYST
					LIMIT		
Stormwater Tanks		SAMPLE ID:					
10176-001	O & G TOTAL (HEM) EPA 1664	TOTAL OIL AND GREASE	3.1	mg/L	2		Dick R. 01/30/2001

**** Draft Report ****

Data in this report may not be complete. This report has not undergone final quality assurance review

COLUMBIA INSPECTION, INC. 133 N. Lombard, Portland, OR 97203 Phone: (503) 285-9484 Fax: (503) 286-5355 E-mail: info@columbiainspection.com

**KOPPERS
INDUSTRIES**

Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Amos S. Kamerer
Plant Manager

Telephone: 503-286-3681
Fax: 503-285-2831

June 5, 2000

Oregon department of Environmental Quality
Northwest Region
2020 SW fourth Avenue, Suite 400
Portland, Oregon 97201-4987

Attention: Elliot Zais

To confirm our telephone conversation of last Friday, June 02, 2000 attached please find the Discharge Monitoring Report for May 2000.

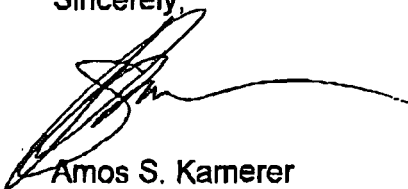
As discussed, this report reflects that we had an excellence during the month of May, of our Phenols permit limit. The permit limit is .5 MG/L monthly average, and .7 MG/L maximum daily limit. The test result on our first sample for the month was .54 MG/L, and because it was below the .7 MG/L maximum limit, it was thought to be OK.

We now understand that we should have re-sampled and re-tested for verification or possible correction, prior to the discharge of the storm water.

Needless to say I regret the error, and I will do all that I can to avoid having this type of error happening again.

If you have any questions, please contact me at 286-3681, or via e-mail at:
amos_kamerer@koppers.com

Sincerely,



Amos S. Kamerer

CC: J. Holtrop, City of Portland
J. Dietz, KII
T. Self, KII
M. Cilley, KII

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME Koppers Industries, Inc.
ADDRESS 7540 NW Saint Helens Road
Portland, OR 97210

FACILITY NW Terminal
LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-18)

PERMIT NUMBER 005
DISCHARGE NUMBER 47430
101642

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
00 05 01 00 05 31
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUANTITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	21,290		GPD					0	N/A	EST.
	PERMIT REQUIREMENT										
TEMP	SAMPLE MEASUREMENT				13.8	15.5	18.2	C	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A				
pH	SAMPLE MEASUREMENT				6.8	7.4	7.8	SU	0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASE	SAMPLE MEASUREMENT				N.D.	2.5	5.1	MG/L	0	1/7	GRAB
	PERMIT REQUIREMENT				0	10	15				
PHENOLS	SAMPLE MEASUREMENT				.54	.54	.54	MG/L	1	1/30	GRAB
	PERMIT REQUIREMENT				0	.5	.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R.D. Collins, VP

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. 1 1001 AND 32 U.S.C. 1 1910. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

James S. Kamerer, Plt. MGR

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

503 286-3681

AREA CODE NUMBER

DATE

00 06 05

YEAR MO DAY

REMARKS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

cc: J. Holtrop - City of Portland, T.I. self - KII

KOPPERS INDUSTRIES

Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Amos S. Kamerer
Plant Manager

Telephone: 503-286-3681
Fax: 503-285-2831

Mr. Elliot J. Zais
Sr. Environmental Engineer
Water Quality Source Control Section
Oregon DEQ
2020 SW Fourth Ave., Suite 400
Portland, Oregon 97201-4987

November 18, 1999

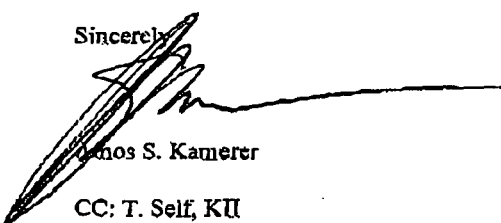
Reference: NPDES # 101642

Dear Elliot,

Enclosed please find a corrected copy of my DMR for last month, October 1999, the original report showed in error the monitoring period month as 09, rather than 10.

I'm sorry for any inconvenience that this may have caused.

Sincerely,



Amos S. Kamerer

CC: T. Self, KU
J. Holtrop, City of Portland

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)
NAME Koppers Industries, Inc.

ADDRESS 7540 NW Saint Helens Road
Portland, OR 97210

FACILITY NW Terminal
LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

101642
PERMIT NUMBER

010
DISCHARGE NUMBER

3077-J
47430

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD

FROM 99 10 01 TO 99 10 30
(120-21) (122-23) (124-26) (126-27) (128-29) (130-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (48-53)			(4 Card Only) QUANTITY OR CONCENTRATION (58-63)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	14,194		GPD					0	N/A	EST.
	PERMIT REQUIREMENT										
TEMP	SAMPLE MEASUREMENT				11.2	13.2	14.3	C	0	1/7	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A				
PH	SAMPLE MEASUREMENT				8.9	8.9	8.9	SU	0	1/7	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASE	SAMPLE MEASUREMENT				3.0	3.2	3.4	MG/L	0	1/7	GRAB
	PERMIT REQUIREMENT				0	10	15				
PHENOLS	SAMPLE MEASUREMENT				.06	.06	.06	MG/L	0	1/7	GRAB
	PERMIT REQUIREMENT				0	.5	.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R.D. Collins, VP

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. 1 1001 AND 33 U.S.C. 1 1815. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

Angela S. Kamerer, Plant MGR

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503 286-3681 99 11 01
AREA CODE NUMBER YEAR MO DAY

MENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

FROM Koppers Industries, Inc. 14:55 1999.11-18 286 3681
1th Quarter PAH Results are attached

cc: J. Holtrop - City of Portland, T.I. Self -KII

FROM : KOPPERS
FAX NO. : 5032852831
APR. 26 2005 09:28AM P1
5032852831

PREPARATION TIME: 0.5 HRS
INSPECTION TIME: 0.75 HRS
(include travel to & from)
FOLLOW-UP TIME: 0.5 HRS
(inspection write-up, enforcement if necessary)
cc: ☐ Water Quality Division ☒ Permittee

NWR/WQ/Portland
Region & Office
18 April 2005
Date

CC: T. Self

KOPPERS

7540 N.W. St. Helens Rd.
Portland, Oregon 97210
(503) 286-3681

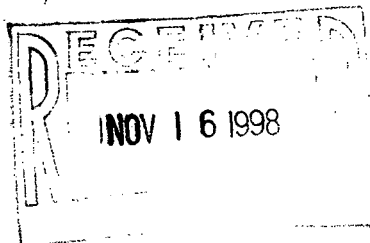
11/10/98

Traci Self

K-1800

The Attached for your files.

A_{mos}



AMOS S. KAMERER

DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY SOURCE INSPECTION FORM

Permittee: <u>Koppers Industries Inc.</u>	Source Address/ Phone Number: <u>7540 NW St. Helens Rd. Portland, Oregon 286-3681</u>	Date Inspected: <u>6 November 1998</u>
Facility Name: <u>Portland Plant</u>	Mailing Address: <u>7540 NW St. Helens Rd. Portland OR 97210-3663</u>	Official Contacted/Title: <u>Amos Kamerer, Plant Manager</u>
File Number (Site ID No.): <u>47430</u>		
EPA ID Number (NPDES Only): <u>OR 000077-9</u>	Type of Inspection: <input checked="" type="checkbox"/> Compliance <input type="checkbox"/> Technical Assistance <input type="checkbox"/> Land Application/Reuse	Samples Taken: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> SPLIT
Permit Number: <u>101003</u>		System Classification: <input type="checkbox"/> Treatment <input checked="" type="checkbox"/> Collection
Permit Exp. Date: <u>11-30-1997</u>		

COMPLIANCE STATUS	In Comp	Not In Comp	On Sch	SUMMARY OF INSPECTION FINDINGS & COMMENTS / RECOMMENDATIONS
Schedule A Waste Discharge Limitations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>I met with Amos Kamerer, Plant Manager. I checked lab data for January 1998 OK. We walked around the facility. The tank farm appears to be properly maintained and operated. The outfall is flowing clear.</u> <u>Facility is in compliance.</u>
Schedule B Monitoring & Reporting	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Schedule C Compliance Conditions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Schedule D Special Conditions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
General Conditions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SFO or MAO Requirements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
VIOLATIONS NOTED: <u>None</u>				

☐ CONTINUED ON ATTACHED PAGE

PREPARATION TIME: 0.5 HRS
INSPECTION TIME: 2.0 HRS
(include travel to & from)
FOLLOW-UP TIME: 0.5 HRS
(inspection write-up, enforcement if necessary)
cc: ☒ Water Quality Division ☒ Permittee

Elliot J. Zais NWR
Inspector's Name (Please Print) Region & Office
Elliot J. Zais 6 November 1998
Inspector's Signature Date
MWWC13WC13053.5 (6/95)

RECEIVED

NOV 10 1998

**KOPPERS INDS., INC.
PORTLAND OR**



Oregon

John A. Kitzhaber, M.D., Governor

Department of Environmental Quality

Northwest Region Portland Office

2020 SW 4th Avenue, Suite 400

Portland, OR 97201-4987

(503) 229-5263

FAX (503) 229-6957

TTY (503) 229-5471

Amos S. Kameron
Plant Manager
Koppers Industries, Inc.
7540 NW St. Helens Road
Portland OR 97210

JUL 06 2000

Re: WQ-Multnomah County
Koppers Industries, Inc.
Facility No. 47430
WQ-NWR-2000-75
NOTICE OF NONCOMPLIANCE

A review of your facility discharge monitoring report for May 2000 for your NPDES individual permit shows the following permit limit exceedance:

Violation: Monthly average phenols concentration of 0.54 mg/L. Your permit limit is 0.5 mg/L.

The above violation is a Class II violation of your permit. Oregon Administrative Rule 340-12-041(2)(c) provides that a permittee shall not receive more than three NONs for Class II violations of the same permit within a thirty-six (36) month period without being issued a more formal enforcement action called a Notice of Permit Violation (NPV). The Department may, however, issue a NPV prior to the third NON. The Department requests your cooperation in ensuring that this violation does not recur.

Corrective Action Required:

Your June 5th letter stated that you took only one phenol sample in May and that since it was below the permit daily maximum limit of 0.7 mg/L, you believed you were in compliance. There is no required corrective action, but the Department recommends additional sampling if a single sample is higher than the average. If you collect only one sample during a given month, it must be below the monthly average limit to be in compliance.

This Notice of Noncompliance suggests you use pollution prevention activities. Using pollution prevention can save you money through lower costs for resources or raw materials, energy and water, waste disposal or waste management, pollution control



equipment, occupational injuries, and DEQ permit costs, emission fees, and hazardous waste generation fees. Pollution prevention can also lead to improved worker health and safety, and increased efficiency or productivity through diverting investments in waste management into the manufacturing process.

What is pollution prevention? Preventing environmental degradation at the source. Pollution prevention can be achieved by:


- protection of natural resources by conservation and improved management practices;
- increased efficiency in the use of raw materials, energy, water, or other resources; or
- source reduction and other practices that reduce or eliminate the creation of pollutants.

The brochure, Industry and the Environment, Pollution Prevention Opportunities, is enclosed for additional information.

Please contact Kevin Masterson, DEQ Northwest Region, 503/229-5615, if you have pollution prevention questions.

Please contact Elliot Zais, DEQ Northwest Region, 503/229-5292, if you have questions about this Notice of Noncompliance.

Sincerely,



Robert P. Baumgartner
Manager, Water Quality Source Control
Northwest Region

cc: WQ Division, DEQ
Enforcement Section, DEQ

cc: J. Dietz

T. Self

M. C. Hilly

G.Y.I.

Amos 7/10/00

RECEIVED

JUL - 7 2000

KOPPERS INDUS. INC.
PORTLAND OR



KOPPERS INDUSTRIES

Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Amos S. Kamerer
Plant Manager

APR 21 1997

Telephone: 503-286-3681
Fax: 503-285-2831

April 18, 1997

Mr. Elliot J. Zais
Sr. Environmental Engineer
Oregon D.E.Q.
2020 S.W. Fourth Ave, #400
Portland, Oregon 97201-4987

Dear Elliot,

To confirm our telephone conversation of yesterday. Due to my misreading of the data contained in the Laboratory Analysis Reports for PAH testing, I have had one non-conforming discharge and possibly two.

The December 1996 Fourth Quarter PAH Analysis, performed by Coffey Laboratories, was reported for the first time ever as MG/L, rather than UG/L, and I did not notice the change. Thinking we were in compliance, we pumped the tanks.

I have talked to Susan at Coffey and she is researching the data from the December Analysis and will report to me, with a copy to you, via a letter fax early next week. As I indicated to you we have never had a non-conformance analysis for PAH's before and because of the magnitude of the results, I can't believe that they are correct. Hopefully, Susan will be able to determine what happened.

In January 1997 we changed Laboratories to Columbia Inspection, Inc. Their March 1997 First Quarter PAH Analysis was also reported as MG/L, rather than UG/L, and again I did not notice the change and pumped the tanks, thinking that I was in compliance.

It wasn't until this Monday as I was preparing the DMR that I noticed the error. I called Dick Reed with Columbia, and as you can see by his attached letter, he is sure of his results and that I was out of compliance.

Koppers003178

On Tuesday of this week we took another sample for PAH analysis and the Columbia Analysis showed that we were back into compliance. We have reviewed everything that we are doing here at the plant and I truly do not know why we would have had this spike in March, let alone the possibility that the December analysis might also be correct.

I am traveling next week, but will be back in the office on Monday April 28, I will call you then to review the Coffey investigation report and to see how you want to proceed on this matter.

I have attached copies of all of the referenced data in this letter.

Sincerely,

A handwritten signature in cursive script that reads "Amos".

Amos S. Kameron

bcc: W.W. Turner, K-1600
W.E. Swearingen, K-1800 ✓
F.J. Fitzgerald, Stickney

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME Koppers Ind. Inc.
 ADDRESS 7540 NW St. Helens Rd.
Portland, OR 97210

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)

101003

PERMIT NUMBER

001

DISCHARGE NUMBER

3077-J

Form Approved.

OMB No. 2040-0004

Approval expires 10-31-94

FACILITY NW Plant

LOCATION Multnomah Co.

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
96	12	01	TO	96	12	31
(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

47430

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS				
FLOW	SAMPLE MEASUREMENT	44,516		GPD						N/A	18/31	EST.
	PERMIT REQUIREMENT											
TEMP	SAMPLE MEASUREMENT				45	48	50	F°	0	18/31	GRAB	
	PERMIT REQUIREMENT				N/A	N/A	N/A					
pH	SAMPLE MEASUREMENT				6.9	7.0	7.1	SU	0	18/31	GRAB	
	PERMIT REQUIREMENT				6.0		7.0					
OIL & GREASE	SAMPLE MEASUREMENT				N.D.	4.0	7.0	MG/L	0	18/31	GRAB	
	PERMIT REQUIREMENT				0	10	15					
PHENOLS	SAMPLE MEASUREMENT				N.D.	.06	.13	Mg/L	0	18/31	GRAB	
	PERMIT REQUIREMENT				0	.5	.7					
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE		DATE		
R.D. COLLINS, VP		503 286-3681		97	01	02
TYPED OR PRINTED		AREA CODE	NUMBER	YEAR	MO	DAY

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	A. S. KAMERER, PLT. MGR.
--	--------------------------

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

FOURTH QUARTER PAH RESULTS ARE ATTACHED



Analytical Data

Koppers Industry

Job Number: 961203V

Page Number: 3 of 4

Lab Sample ID: 961203V-1

Field ID: Wastewater Tanks 1,3 & 5

Date/Time: 12/03/96 0800

Matrix: Waste Water

EPA Category: Extractable Organics

Analysis Performed: EPA 8310; Polynuclear Aromatic Hydrocarbons by HPLC.

Analysis Date: 12/23/96

Analyst: VB

Parameter	Detection Limit	Laboratory Blank	Analytical Result
Acenaphthene	10.	ND	ND
Acenaphthylene	10.	ND	ND
Anthracene	1.	ND	ND
Benzo(a)anthracene	0.1	ND	4.0
Benzo(a)pyrene	0.4	ND	11.
Benzo(b)fluoranthene	0.1	ND	19.
Benzo(g,h,i)perylene	0.4	ND	6.4
Benzo(k)fluoranthene	0.1	ND	15.
Chrysene	1.	ND	7.
Dibenzo(a,h)anthracene	0.4	ND	1.7
Fluoranthene	1.	ND	15.
Fluorene	5.	ND	ND
Indeno(1,2,3-cd)pyrene	0.5	ND	7.3
Naphthalene	5.	ND	ND
Phenanthrene	1.	ND	ND
Pyrene	1.	ND	15.

10.4

Results expressed as mg/l unless otherwise noted.

ND means none detected at or above the detection limit listed.

RECEIVED

JAN - 2 1997

KOPPERS INDS., INC.
PORTLAND, OR

Coffey Laboratories, Inc.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003181

Columbia Inspection, Inc.

Member of ASTM & API
U.S. Customs Commercial Gauger and Laboratory

April 18, 1997

L970418A.KII

Mr. Amos Kamerer
Koppers Industries, Inc.
7540 NW St. Helens Road
Portland, OR 97210-3663

RE: The PAH Analysis of Wastewater Tanks 1,3,5 (03/06/97)

Dear Amos:

As per your request, I have again reviewed the PAH test which yielded total toxic organic levels of 1.6 mg/L (1,600 ppb) in order to validate whether or not your discharge was, indeed, out of compliance. The following is the result of my review.

1. The sample bottle provided for sample collection was a bottle that had been washed with a hot alkaline detergent, rinsed numerous times with deionized water. The bottle was also solvent rinsed three times to remove organic residue. Other bottles washed at that time were used by other clients for PAH analysis with results in the low parts-per-billion or "none detected" range. This tends to suggest that the bottle was suitably clean prior to sample collection.
2. The extraction blank which accompanied this test showed "none detected" for all parameters. The sample's extract was especially dirty for a sample of this nature. The sample extract concentration step took the initial sample volume of 950mLs down to 1.0 mLs, nearly a thousand-fold concentration.
3. Unlike most routine samples, this sample showed "hits" for every parameter on the PAH list. The analyst was questioned about the possibility that he had accidentally spike the sample with standatd instead of surrogate solution. He said this wasn't the case. He also suggested that if such a mistake had been made, the levels found for all parameters would have been close to a given concentration.
4. The calibration standards for this test yielded essentially the same integration counts as found with other analyses. The counts obtained for the Koppers sample yield "ppm" results in the 1-500 ppm range for nearly all parameters. These ppm results were then corrected for the 950-fold concentration which essentially converts ppm results to ppb results. Thus, we reported results in the 1-500 ppb range. The surrogate recovery was 94% which validates the data.

From the office at . . .

- PORTLAND
7133 N. Lombard St.
P.O. Box 83569 - St. Johns Sta.
Portland, OR 97283-0569
503-286-9464
FAX 503-285-7831
- TACOMA
4901 E. 20 Street
Fife, WA 98424
206-922-8781
FAX 206-922-8957
- SAN FRANCISCO
613 Escobar Street
Martinez, CA 94553
510-229-0360
FAX 510-229-2821
- LOS ANGELES
790 Basin St., Unit #2
San Pedro, CA 90731
310-833-1557
FAX 310-833-1585

All results can be justified and point to a total PAH content over 1000 ppb. Please feel free to call me should you have any questions or concerns.

Sincerely,

A handwritten signature in black ink, appearing to read "Richard D. Reid". The signature is fluid and cursive, with the first name "Richard" and last name "Reid" clearly distinguishable.

Richard D. Reid
Laboratory Director



CERTIFICATE OF ANALYSIS

CLIENT: KOPPERS INDUSTRIES, INC.
7540 NW ST. HELENS ROAD
PORTLAND OR 97210-3663

PHONE: (503) 286-3681
FAX: (503) 285-2831

DATE SUBMITTED: 04/16/97

PO#:

PROJECT NAME: WW Tanks 1-3-5

CI SAMPLE #	CLIENTS ID#	DATE	TIME	DESCRIPTION
970550-001-01		04/14/97		Wastewater Grab from Tanks 1-3-5

REPORT DATE: 04/16/97

REPORT NUMBER: 970550

PAGE: 1 OF 1

SAMPLE	TEST	PARAMETER	RESULT	UNIT	DETECTION LIMIT	ANALYST
970550-001-01	PNAH 2 EPA 625 (SIM)	ACENAPHTHENE	0.009	PPM	0.007	*
		ACENAPHTHYLENE	0.020	PPM	0.010	
		ANTHRACENE	ND	PPM	0.001	
		BENZO(A)ANTHRACENE	ND	PPM	0.005	
		BENZO(A)PYRENE	ND	PPM	0.01	
		BENZO(B)FLUORANTHENE	ND	PPM	0.0001	
		BENZO(GHI)PERYLENE	ND	PPM	0.0004	
		BENZO(K)FLUORANTHENE	ND	PPM	0.0003	
		CHRYSENE	ND	PPM	0.001	
		DIBENZO(AH)ANTHRACENE	ND	PPM	0.0004	
		FLUORANTHENE	0.022	PPM	0.001	
		FLUORENE	0.004	PPM	0.001	
		INDENO(1,2,3-CD)PYRENE	ND	PPM	0.001	
		NAPTHALENE	ND	PPM	0.005	
		PHENANTHRENE	0.008	PPM	0.001	
		PYRENE	ND	PPM	0.001	

SURROGATE

ACCEPTABLE % RECOVERY

63

REVIEWED BY:


Richard D. Reid - Laboratory Director



CERTIFICATE OF ANALYSIS

CLIENT: KOPPERS INDUSTRIES, INC.
7540 NW ST. HELENS ROAD
PORTLAND OR 97210-3663

PHONE: (503) 286-3681
FAX: (503) 285-2831

DATE SUBMITTED: 03/06/97

PO#:

PROJECT NAME: WASTE WATER TANKS 1-3-5

CI SAMPLE #	CLIENTS ID#	DATE	TIME	DESCRIPTION
970317-001-01		03/06/97	0800	WASTE WATER GRAB SAMPLE
970317-001-02		03/06/97	0800	WASTE WATER GRAB SAMPLE
970317-001-03		03/06/97	0800	WASTE WATER GRAB SAMPLE

REPORT DATE: 03/13/97

REPORT NUMBER: 970317

PAGE: 1 OF 2

SAMPLE	TEST	PARAMETER	RESULT	UNIT	DETECTION LIMIT	ANALYST
970317-001-01	O&G. TOTAL, GRAV EPA 413.1/9070	TOTAL OIL & GREASE	5.1	PPM	2	Dick R.
970317-001-02	PHENOLS. TOTAL EPA 420.1	TOTAL RECOVERABLE PHENOLICS	.051	PPM	0.05	Dick R.
970317-001-03	PNAH 1 EPA 8270M (SIM)	ACENAPHTHENE	0.0091	PPM	0.00005	Jacob F.
		ACENAPHTHYLENE	0.0010	PPM	0.00005	
		ANTHRACENE	0.013	PPM	0.00005	
		BENZO(A)ANTHRACENE	0.45	PPM	0.00005	
		BENZO(A)PYRENE	0.25	PPM	0.0005	
		BENZO(B)FLUORANTHENE	0.024	PPM	0.0005	
		BENZO(GHI)PERYLENE	0.23	PPM	0.0005	

REVIEWED BY:

Richard D. Reid - Laboratory Director

COPY

Columbia Inspection, Inc. 7133 N Lombard St. - Portland, OR 97203 (503) 286-9464 Fax (503) 286-5355

Koppers003185

CERTIFICATE OF ANALYSIS

REPORT DATE: 03/13/97

REPORT NUMBER: 970317

PAGE: 2 OF 2

SAMPLE	TEST	PARAMETER	RESULT	UNIT	DETECTION LIMIT	ANALYST
970317-001-03	PNAH 1	BENZO(K)FLUORANTHENE	0.20	PPM	0.0005	Jacob F.
	EPA 8270M (SIM)	CHRYSENE	0.055	PPM	0.00005	
		DIBENZO(AH)ANTHRACENE	0.057	PPM	0.0005	
		FLUORANTHENE	0.13	PPM	0.00005	
		FLUORENE	0.0085	PPM	0.00005	
		INDENO(1,2,3-CD)PYRENE	0.057	PPM	0.0005	
		NAPTHALENE	0.00096	PPM	0.00005	
		PHENANTHRENE	0.058	PPM	0.00005	
		PYRENE	0.11	PPM	0.00005	
		SURROGATE	94%	%RECOVERY	50%-150%	

1.65356

COPY

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME KOPPERS IND. INC.

ADDRESS 7540 NW ST HELENS RD
PORTLAND, OR 97210

FACILITY NORTHWEST TERMINAL

LOCATION MULTNOMAH CO.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

101003

PERMIT NUMBER

001

DISCHARGE NUMBER

3077-J

47430

Form Approved.

OMB No. 2040-0004

Approval expires 10-31-94

MONITORING PERIOD

FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
97	03	01	97	03	31
(20-21) (22-23) (24-25)			(26-27) (28-29) (30-31)		

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	<div></div>	(3 Card Only) (46-53)			(4 Card Only) (38-45)			QUALITY OR CONCENTRATION (46-53)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS					
FLOW	SAMPLE MEASUREMENT	17,742		GPD					N/A	15/31	EST.		
	PERMIT REQUIREMENT												
TEMP	SAMPLE MEASUREMENT				48	50	53	°F	0	15/31	GRAB		
	PERMIT REQUIREMENT				N/A	N/A	N/A						
pH	SAMPLE MEASUREMENT				6.9	7.1	7.3	SU	0	15/31	GRAB		
	PERMIT REQUIREMENT				6.0	—	9.0						
OIL & GREASE	SAMPLE MEASUREMENT				N.D.	3.2	6.8	mg/L	0	15/31	GRAB		
	PERMIT REQUIREMENT				0	10	15						
PHENOLS	SAMPLE MEASUREMENT				.05	.17	.5	mg/L	0	15/31	GRAB		
	PERMIT REQUIREMENT				0	.5	.7						
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R.D. COLLINS, V.P.

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)

Amos Kamerer, Plt. Mgr.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

503-286-3681

AREA CODE

NUMBER

DATE

97 04 17

YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

first quarter PAH test results are attached, SEE LETTER ATTACHED

30 April 1997

Oregon

AMOS S KAMERER
PLANT MANAGER
KOPPERS INDUSTRIES INC
7540 NW ST HELENS RD
PORTLAND OR 97210

DEPARTMENT OF
ENVIRONMENTAL
QUALITY

NORTHWEST REGION

Re: WQ-Multnomah County
Koppers Industries, Inc..
Facility No. 47430
WQ-NWR-97-041
NOTICE OF NONCOMPLIANCE

Dear Mr. Kamerer:

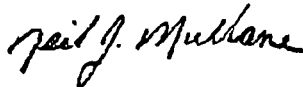
A review of your facility's discharge monitoring report for March 1997 shows that the following exceedence occurred at the above facility on March 6, 1997:

Maximum PAH in effluent 1.653 mg/L (allowable is 1.0 mg/L)

This is the second Class II violation of your permit. Oregon Administrative Rule 340-12-041(2)(c) provides that a permittee shall not receive more than three NONs for Class II violations of the same permit within a thirty-six (36) month period without being issued a Notice of Permit Violation (NPV). If additional Class II violations occur, we will be referring these violations to the Department's Enforcement Section for the issuance of a NPV. The NPV is a formal enforcement action that requires you to submit one of the following within five working days of its receipt: (1) a certification of full compliance with all permit conditions; or (2) a detailed plan and time schedule demonstrating what steps will be taken to gain compliance, together with interim measures taken to reduce the impact of the violations, and a statement that the permittee has reviewed all of the conditions and limitations of the permit and is in compliance with all other provisions.

If the Department can be of any help in preventing further violations, please call Elliot Zais at 229-5292.

Sincerely,



Neil J. Mullane, Manager
Water Quality Source Control

John A. Kitzhaber
Governor



EJZ

cc: WQ
Enforcement

Post-It™ brand fax transmittal memo 7671		# of pages	1
To	B. Swearingen	From	Amas
On	This for your files	On	Files
Dept		Phone #	Sorry!
Email		Send	

20 SW Fourth Avenue
Suite 400
Portland, OR 97201-4987
(33) 229-5263 Voice
(503) 229-5471
Q-1

Koppers003188



Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Amos S. Kameroner
Plant Manager

Telephone: 503-286-3681
Fax: 503-285-2831

Mr. John Holtrop
Environmental Tech II
City of Portland
Environmental Services
6543 N. Burlington Ave,
Portland, Oregon 97203-5452

August 9, 1999

Reference: Batch Discharge Permit

Dear John,

This is to confirm our conversations earlier this week.

I would like to request a Batch Discharge Permit for the one time discharge of approximately 2,074,000 gallons of city water, after we have completed the hydro testing of our new pitch storage tank. The tentative schedule for this testing is to start filling the tank on Monday August 27th. We are estimating that it will take us about 36 hours to fill the tank, thus, we are estimating that the discharge will commence on Wednesday the 29th, after the testing for the lack of chlorine has been completed by Columbia Laboratories. We estimate that the discharge will take about 60 hours, thus, we should be finished some time on Saturday October the 2nd.

I have reviewed this plan with the ODEQ, the Portland City Water Bureau and my landlord, NW Natural. The Water Bureau has asked that we advise them when we start to fill the tank, and we will be sure to do so; otherwise, no additional requirements were requested.

I believe that this provides you with the information requested, if there is any additional information that you require, please advise. I would appreciate your prompt attention to this request, so that we will be ready to go on the dates above.

Thank you for your help and advice, in putting this together.

Sincerely,

A handwritten signature in dark ink that reads "Amos". The signature is written in a cursive, flowing style.

Amos S. Kameroner
CC: T. Self, KII
M. Cilley, KII

Leave Blank: City use only
Date Received: _____

GENERAL INFORMATION

Complete all applicable sections. Information must be typewritten or clearly printed. Attach requested information as needed. Signing official must have authorization to provide such information on behalf of the company, corporation, or partnership.

1. Company Name/Telephone number: Koppers Industries, Inc./412-227-2001
Division name: (if applicable) Tar Operations
2. Mailing Address: Street or P.O. Box: 436 Seventh Avenue
City, State, Zip Code: Pittsburgh, PA 15219-1800
3. Facility Address: (if different from mailing address)
Street or P.O. Box: 7540 NW St. Helens Road
City, State, Zip Code: Portland, OR 97210-3663
4. Person to be contacted about this form:
Name: William E. Swearingen
Address: Koppers Industries, Inc. - 436 Seventh Avenue
City, State, Zip Code: Pittsburgh, PA 15219-1800
Title: Manager: Environmental Programs
Phone Number: 412-227-2883 FAX - 227-2423
5. Person to be contacted in case of an emergency:
Name: Amos Kamerer
Address: Koppers Industries, Inc. - 7540 NW St. Helens Road
City, State, Zip Code: Portland, OR 97210-3663
Title: Plant Manager
Phone Number: 503-286-3681 FAX - 285-2831

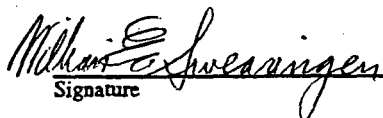
Confidentiality

Please indicate those sections of this questionnaire that you wish to remain confidential and your basis for requiring confidentiality.

Qualified Professional Certification

I hereby certify under penalty of law that this information was obtained in accordance with the applicable procedures and requirements as specified in the Federal General Pretreatment Regulations and amendments thereto, and the City's Sewer Use Ordinance. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

William E. Swearingen
Name (print)

 MGR: Env. Programs 7/28/94 412-227-2883
Signature Title Date Phone

Authorized Representative Statement

I certify under penalty of law that I have personally examined and I am familiar with the information in this report and all attachments therein. Furthermore, based on my inquiry of those persons immediately responsible for obtaining the information contained in this report. I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. I further certify that the sampling results reported are representative of normal work cycles and expected pollutant discharges.

Amos Kamerer
Name (print)

Plant Manager 7/29/94 503-286-3681
Signature Title Date Phone

Section I--Water/Wastewater Data

1. Water use and distribution--Estimate the average quantity of water received and wastewater discharged daily (for new businesses, estimate flows).

<u>Water Used for:</u>	<u>Supply From(gal/day)</u>		<u>Discharged To(gal/day)</u>	
	<u>City Water</u>	<u>Other Source</u>	<u>Sanitary Sewer</u>	<u>Other</u>
<u>Sanitary</u>	City of Portland/315 GPD		Sanitary Sewer/200 GPD	

Processes (see No. 10 for categorical users)

Boiler/Cooling Tower City of Portland / 7650 GPD

Cooling Water Contact

Washing (equipment washdown)

Irrigation

Air Pollution Control

Surface Water from rainfall/4000 GPD NPDES/4000 GPD

Water Hauler

Other(Describe)

Total:

Water Account Number 4640172034 M 0178

- 2 Are, or will, the discharges be continuous ☐ or batch ☒?

3. If batch discharge occurs or will occur, indicate:

(a) Percent processing as batch _____ None

(b) Percent processing as continuous None

(c) Number of batch discharges $\frac{N/A}{(\text{per week})}$ at $\frac{\quad}{(\text{hours per discharge})}$

(d) Average quantity per batch N/A gallons

(c) Flow rate N/A gallons/minute

- #### 4. Discharge Period

(a) Hours of Day Operated or planned: M 24 T 24 W 24 Th 24 F 24 Sat 0 Sun 0

(b) Duration of Discharge (hrs/day): M 24 T 24 W 24 Th 24 F 24 Sat 0 Sun 0

- ## 5. Variation of Operation

Is the business or proposed activity:

Continuous through the year $[x]$, or

Seasonal []—Circle the months of the year during which discharge occurs:

J F M A M J J A S O N D

6. **Process flow schematic:** draw appropriate diagram(s) using the form in Attachment A.

7. **Building layout:** Draw layout of building using Attachment B.

Section I--Water/Wastewater Data

8. List existing or proposed plant sewer outlets, size, and flow (assign sequential reference number to each sewer starting with No. 1, see Attachments A and B):

<u>Reference No.</u>	<u>Sewer Size (inches)</u>	<u>Descriptive location of sewer connection or discharge point</u>	<u>Daily Avg. flow (gal/day)</u>
Unknown	8	Connect to 36" main	200
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

9. General characteristic of wastewater or proposed wastewater discharge: (provide specific values for a. b. d. e. f. if known)

- (a) Temperature: _____ Don't know ☒
 (b) pH level: _____ Don't know ☒
 (c) Flammable or explosive materials: Yes ☐ No ☒ Don't know ☐
 (d) Fats, oils, and grease (mg/L): _____ Don't know ☒
 (e) 800 (mg/L): _____ Don't know ☒
 (f) TSS (mg/L): _____ Don't know ☒
 (g) Solid or viscous material Yes ☐ No ☐ Don't know ☒
 (h) Toxics: Yes ☐ No ☐ Don't know ☒ *** REVIEW ENVIRONMENTAL SURVEY B ATTACHMENT "A".
 (i) Solvents: Yes ☐ No ☒ Don't know ☐

10. For categorical facilities, provide the following flows for each of your regulated processes or proposed regulated process (i.e., manufacturing process line covered by categorical pretreatment standards).

- (a) Total Plant Flow in Gallons Per Day (gpd) discharged to the sewer system:

Average None Maximum None

- (b) Individual Process Flows in Gallons Per Day (gpd):

<u>No.</u>	<u>Regulated Process</u>	<u>Average flowrate (gpd)</u>	<u>Maximum flowrate (gpd)</u>	<u>Type of Discharge (batch, continuous, none)</u>
_____	Not applicable	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

11. Is an inspection and sampling manhole structure available onsite? Yes ☐ No ☒

- If yes, provide location below and include as part of the process flow schematic (see Attachment O).
- Location description:
- If no, is one planned? Yes ☐ No ☒

12. Do you or plan to have automatic sampling equipment or continuous wastewater flow metering equipment currently in use or included in future plans?

Current: Sampling Equipment Yes ☐ No ☐ N/A ☒ Flow Metering Yes ☐ No ☐ N/A ☒
 Planned: Sampling Equipment Yes ☐ No ☐ N/A ☒ Flow Metering Yes ☐ No ☐ N/A ☒

If so, please indicate the present or future location of this equipment on the sewer schematic and describe the equipment below:

13. Does your facility pretreat or plan on pretreating any wastewater prior to discharge to a sanitary sewer?

Yes ☐ No ☒ N/A ☐

Section II-Business/Facility Description

PURPOSE--The business description is primarily used to determine the substances which may enter into the wastewater discharge from the business activity.

1. Business activity--(Complete a separate sheet for each major or proposed business activity or product line on premises.)

Activity: Melting & Blending SIC Nos.: 2865

- (a) Raw materials used or planned for use:

Coal Tar Products

- (b) Chemicals used or planned for use:

Coal Tar Products

- (c) Product (new businesses provide best estimates):

Type of Product (Brand Names)	<u>Past Calendar Year</u>		<u>Estimate This Calendar Year</u>	
	<u>Amounts Per Day (Daily Units)</u>		<u>Amounts Per Day (Daily Units)</u>	
	<u>Average</u>	<u>Maximum</u>	<u>Average</u>	<u>Maximum</u>
Creosote	5000 Gal.	15000 Gal.	1500 Gal	15000 Gal.
Pitch	90 Tons	270 Tons	90 Tons	270 Tons

- (d) Description--Describe each wastewater generating or proposed operations or manufacturing process. Indicate variations in production and operations during the year. (Use additional sheets as necessary.)

No process wastewater generated

- (e) Substances Discharged--Give common and technical names of each major raw material and product that may be discharged to the sewer. Briefly describe the physical and chemical properties of each substance and products. (use additional sheets if necessary.)

NAME

DESCRIPTION

No process wastewater is discharged

Section III—Permit Application Monitoring

PART B: CATEGORICAL USERS

1. Summarize Each Regulated Process:

Process Description	Production Rate	Pretreatment Standard Category	Subpart	Flow
Blending	N/A	414	G	None
Melting	N/A	414	G	None

Total plant flow: None

2. Nature and Concentration of Pollutants (report concentrations in mg/L or mass in lbs):

a. Analysis of Regulated Flows

The industrial user must perform sampling and analysis of the effluent from all regulated process (after treatment, if applicable). Provide the analytical data for the regulated processes in the space provided below. Attach additional sheets if necessary (simply xerox the table and questions below). Only those pollutants specifically regulated by the applicable category need be reported. Refer to backside for further instructions on where to take samples and how many samples to take. If the effluent samples were taken at one combined point, indicate alongside the regulated process line what process flows are commingled at this point.

Regulated Process line(s): None

Process Flow(s) (Daily ave. in mgd): None

ANALYTICAL RESULTS OF PROCESS WASTEWATER DISCHARGES

Pollutant None
 Monthly Avg. Limit Not applicable
 Reported Average
 Daily Max. Limit
 Reported Maximum

- b. Sample type (grab, composite): _____
- c. Number of samples collected (explain): _____
- d. Dates and times samples collected: _____
- e. Sample collection location: _____
- f. Where samples analyzed: _____
- g. Methods of analyses: _____
- h. Provide name and address of commercial labs performing analyses:
 Name: _____ Address: _____
 Name: _____ Address: _____

Section III-Permit Application Monitoring

PART B: CATEGORICAL USERS

4. Total Toxic Organics (TTOs): Not applicable

Facilities who use toxic organics listed by EPA in its published categorical pretreatment standards are required to meet TTO pretreatment standards and must initially sample for TTO and determine compliance. Facilities found to be in compliance with TTO standards can develop a solvent management plan in lieu of having to periodically sample for toxic organics. If you do not use toxic organics in your manufacturing process, you will not be required to sample for TTO but you must answer question "A" below.

- (a) We presently do not or plan to use any of the toxic organics that are listed under the TTO standard located in the applicable categorical pretreatment standards published by EPA. []
- (b) We presently use or plan to use organic toxicants listed in the categorical pretreatment standards. [] Complete Parts c and d.
- (c) A PAMF has previously been submitted which contains TTO information.
Yes [] No []
- (d) A solvent management plan has been developed and is attached.
Yes [] No []

5. Compliance Certification Not applicable

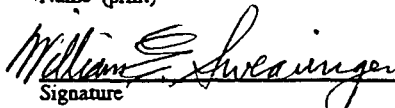
- (a) Is the facility meeting applicable categorical pretreatment standards on a consistent basis?
Yes [] No []
- (b) If no, do you require:
 - (1) Additional operation and maintenance (O&M) to achieve compliance? Yes [] No []
 - (2) New or additional pretreatment facilities to achieve compliance? Yes [] No []
- (c) If additional O&M or new or additional pretreatment will be required to meet categorical pretreatment standards on a consistent basis, attach a description of it and a schedule on separate sheets. Project increments of progress indicating dates for the commencement and completion of major events leading to compliance with the standard. Note: The final compliance date in this schedule shall not be later than the compliance date for the applicable pretreatment standard. Written progress reports are required within 14 days of each of the compliance dates specified in the compliance schedule.
- (d) _____ I have provided a compliance schedule.

Qualified Professional Certification:

I hereby certify under penalty of law that this information was obtained in accordance with the applicable procedures and requirements as specified in the General Pretreatment Regulations and amendments thereto and the City's sewer use ordinance. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

William E. Swearingen

Name (print)

	Mgr., Env. Program	8/5/94	412-227-2883
Signature	Title	Date	Phone

Authorized Representative Statement:

I certify under penalty of law that I have personally examined and I am familiar with the information in this report and all attachments therein. Furthermore, based on my inquiry of those persons immediately responsible for obtaining the information contained in this report. I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. I further certify that the sampling results reported are representative of normal work cycles and expected pollutant discharges.

Amos Kamerer

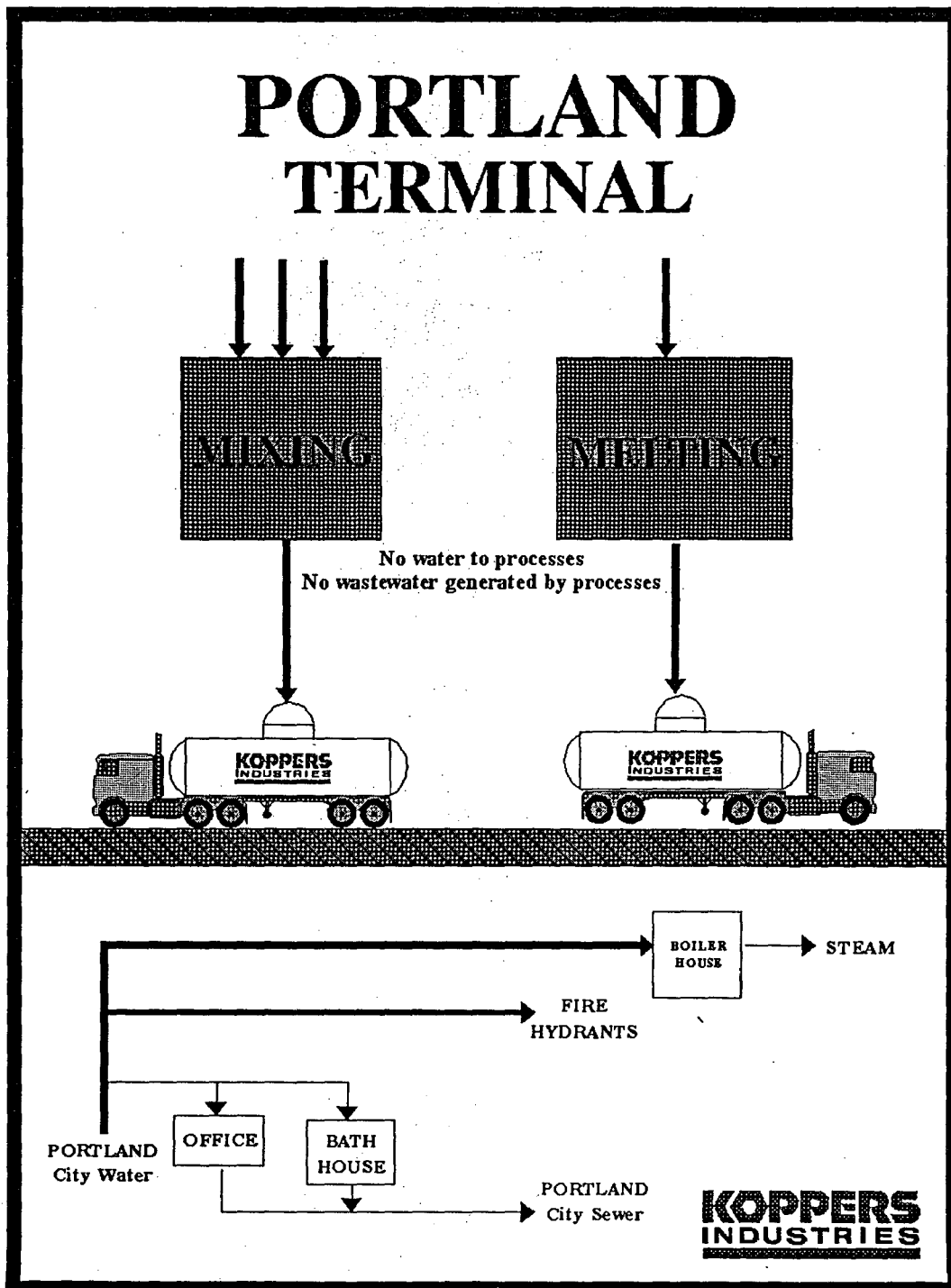
Name (print)

	Plant Manager	8/8/94	503-286-3681
Signature	Title	Date	Phone

ATTACHMENT A

ATTACHMENT A-SCHEMATIC FLOW DIAGRAM

For each major activity in which wastewater is generated, draw a diagram of the flow of materials and water from start to completed activity, showing all unit processes generating wastewater. Number each unit process having wastewater discharges to the community sewer. Use these numbers when showing this unit process in the building layout in schematic. Use the space below or additional sheets of 8x11 paper. An example is provided on the backside.



ATTACHMENT B-BUILDING LAYOUT

Draw to scale the location of each building on the premises. Show location of all water meters (current and planned), storm drains, numbered unit processes (from process schematic(s)), community sewers and each side sewer connected to the community sewers, automatic sampling equipment (current and planned), location of pretreatment processes, treated flows and untreated flows, name and location of pertinent streets. Use flow schematic to indicate process and process discharge in gpd. Number each side sewer and show possible sampling locations (sampling manhole).

An attached blueprint or drawing of the facilities showing the above items may be substituted for a drawing on this sheet. See example on the back.

**SEE ATTACHED
DRAWING
L-7106-15**

KOPPERS

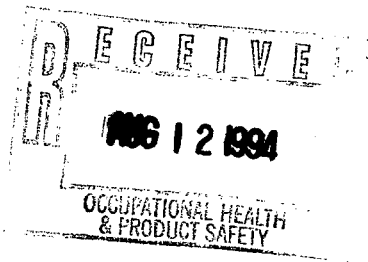
7540 N.W. St. Helens Rd.
Portland, Oregon 97210
(503) 286-3681

8/8/94

Bill Swearingen

K-180

Pgh.



Here are copies of the other 2
Survey's and a copy of the drawing
with the water meter note.

TX.

Amos

AMOS S. KAMERER

ENVIRONMENTAL SURVEY A

WES



CITY OF
PORTLAND, OREGON
BUREAU OF ENVIRONMENTAL SERVICES

Environmental Survey Wastewater Generating Characteristics

LEAVE BLANK City Use Only

Date Received: _____
Treatment Plant: _____
Service Area: _____
Pump Stations: _____
Sewer Node: _____

Please complete in full, either typed or printed clearly.

SECTION A - GENERAL INFORMATION

- A1. Company name: KOPPERS INDUSTRIES, INC.
- A2. Division name: TAR PRODUCTS
- A3. Address of the facility:
7540 NW ST HELENS ROAD
PORTLAND, OR 97210-3663
- A4. Mailing address: SAME
- A5. Representative completing this form:
Name AMOS S. KAMERER
Title PLANT MANAGER Telephone 286-3681 FAX 285-2831
- A6. Brief description of business—principal products and services:
A TERMINAL FACILITY FOR COAL TAR BASED PRODUCTS AS FOLLOWS:
PENCIL PITCH, LIQUID PITCH, CREOSOTE, CREOSOTE DISTILLATES AND REFINED COAL TARS
- A7. Is the building presently connected to public sewer system? ☒ Yes ☐ No
If no, have you applied for a sewer connection? ☐ Yes ☐ No
Estimated date of connection _____
- A8. Standard Industrial Classification Number(s) (SIC Code if known): 2865 Business License No.: 398554
- A9. Do you or will you discharge oils, grease, or fats to the public sewer? ☐ Yes ☐ No
- A10. Place a check for device used:
a. Oil and water separator N/A ☐ Yes ☐ No
b. Grease trap N/A ☐ Yes ☐ No
c. Sand/sediment trap N/A ☐ Yes ☐ No
- A11. What is your normal frequency of cleaning the oil and grease trap? Where do you dispose of trapped oil and grease?
N/A
- A12. Do you or will you have chemical storage containers, bins, or ponds at your facility? ☒ Yes ☐ No
Do you have any underground storage tank(s) ☐ Yes ☒ No
- A13. Have you been issued a local, state, or federal environmental permit? ☒ Yes ☐ No
If yes, please list the types of permit(s). NPDES #101003, FACILITY #47430
- A14. Do you or will you have floor drains in your manufacturing or storage area? ☐ Yes ☒ No
If you have chemical storage containers, bins, or ponds, or floor drains in manufacturing or storage area, could an accidental spill lead to a discharge to an onsite disposal system (e.g., through a floor drain)? ☐ Yes ☒ No
Public sewer? ☐ Yes ☒ No
To storm drain? ☐ Yes ☒ No
To ground? ☒ Yes ☐ No
- A15. Do you or will you discharge wastewater (other than domestic waste from bathrooms, toilets, etc.) to an onsite disposal system? ☒ Yes ☐ No
or storm sewer? ☐ Yes ☒ No
- A16. Do you or will you discharge wastewater (other than domestic waste from bathrooms, toilets, etc.) to the public sewer system? ☐ Yes ☒ No

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature*

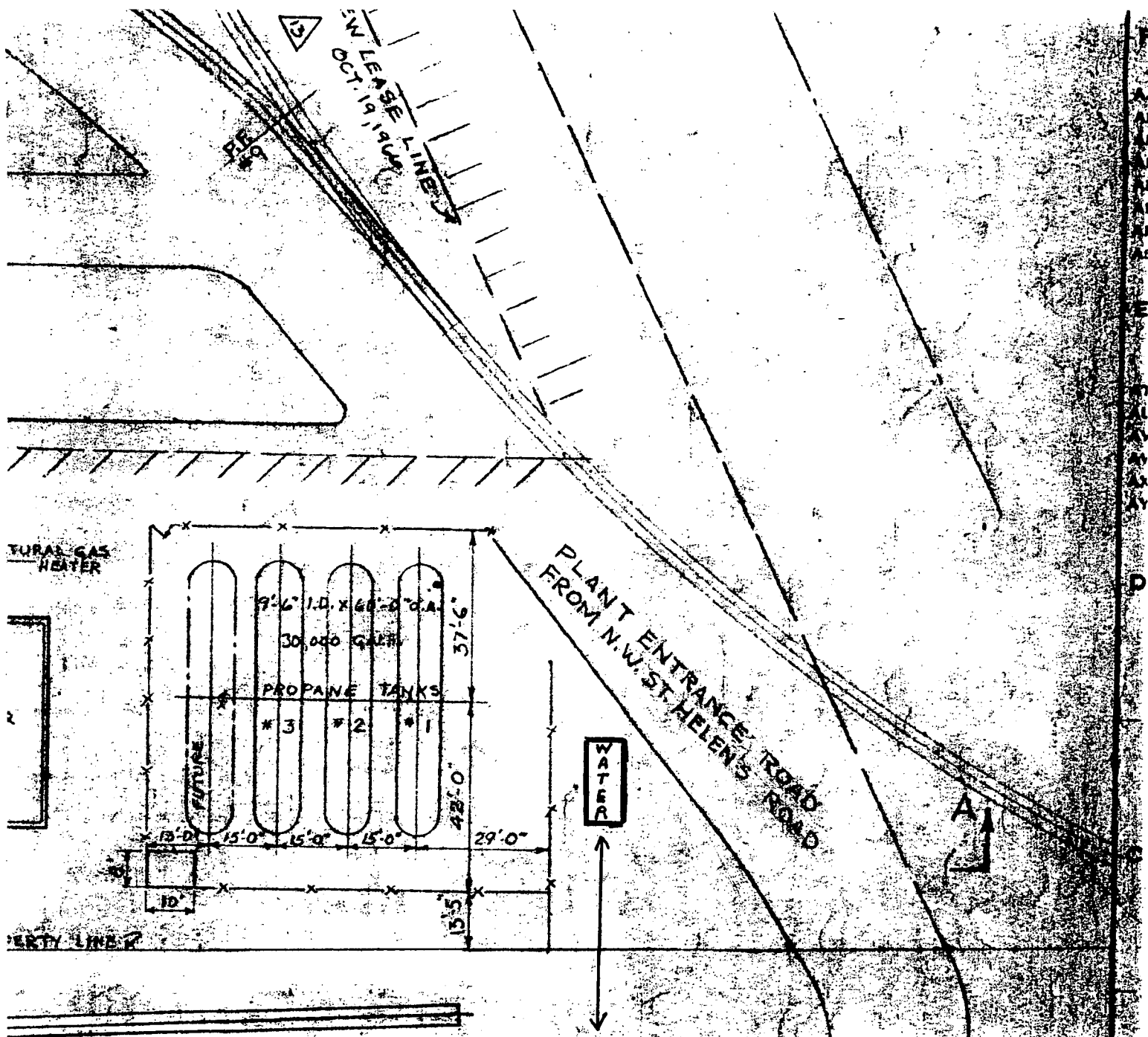
A.S. Kammerer

Title PLANT MANAGER

Date

8/8/94

Koppers003199



NOTE: All THREE WATER METERS ARE LOCATED AT THIS LOCATION. THEY SERVICE, SEPARATELY, THE BOILER, OFFICE & WASH HOUSE, AND THE FIRE HYDRANTS.

NOMINAL YARD EL. 432'-6"
 ELEVATIONS SHOWN ARE FROM FIELD DATA BASED ON
 +33'-0" AT REF. PT. ON TOP OF FOUNDATION OF TOWER

INC.	NORTH WEST	300'	MINO	7100
TAR PLANT LAYOUT				5



CITY OF

PORTLAND, OREGON

BUREAU OF ENVIRONMENTAL SERVICES

Environmental Survey

WES

SECTION B - DETAILED WASTEWATER INFORMATION

Company Name KOPPERS INDUSTRIES, INC.Facility Address 7540 NW ST HELENS ROADPORTLAND, OR 97210

- B1. Please describe processes to be used in your facility that will result or may result in wastewater discharge to the public sewer system.
NO PROCESS WASTEWATER IS GENERATED AT THIS FACILITY. STORMWATER IS COLLECTED AND
DISCHARGED TO NPDES OUTFALL. DOMESTIC SEWAGE ONLY TO CITY OF PORTLAND.

- B2. This facility generates or will generate the following types of wastes (check all that apply):

	Average gallons per day	Peak gallons per day
<input checked="" type="checkbox"/> Domestic wastes (restrooms, employee showers, etc., Estimate 35 gallons per day for each employee)	<u>200</u>	<u>350</u>
<input type="checkbox"/> Cooling water, noncontact		
<input type="checkbox"/> Boiler/Tower blowdown		
<input type="checkbox"/> Cooling water, contact		
<input type="checkbox"/> Process		
<input type="checkbox"/> Equipment/Facility Washdown		
<input type="checkbox"/> Air Pollution Control Unit		
<input type="checkbox"/> Stormwater runoff to sewer		
<input type="checkbox"/> Other (describe)		
<input type="checkbox"/> Cleanup		
Total	<u>200</u>	<u>350</u>

Time and Duration of Discharge: 24 HOURS--BATCH--4 TO 5 DAYS PER WEEKCleanup Time: VARIABLE

- B3. Products Produced: (Attach additional sheets as necessary)

Type	Amount and Rate of Production	Process
<u>MIXTURES</u>		<u>MIXING & MELTING</u>

- B4. Water supplied from: (Best estimate if not metered)
(City, Well, etc.)

Water Source(s)	Water Acct No.	Water Quantities*	
		Estimated	Meter
a. <u>CITY</u>	<u>4640172034</u>		<u>29</u> gal/day
b. _____	_____		_____ gal/day
c. _____	_____		_____ gal/day

*1 ccf = 748 gallons

Total

B5. Wastes are discharged or may be discharged to:	Average gallons (check all that apply)	Peak gallons
<input checked="" type="checkbox"/> Sanitary sewer	<u>200</u>	<u>350</u>
<input type="checkbox"/> Storm sewer		
<input checked="" type="checkbox"/> Surface water NPDES	<u>4000</u>	<u>6000</u>
<input type="checkbox"/> Groundwater (onsite disposal)		
<input type="checkbox"/> Waste haulers		
<input type="checkbox"/> Other (describe)		
Total	<u>4200</u>	<u>6350</u>

Are the discharges batch ☒? continuous ☐?

B6. Are any liquid wastes or sludges from this firm disposed of by means other than discharge to the sewer system?

☐ Yes ☒ No If "no," skip Items B7 and B8; If "yes," complete Items B7 and B8.

B7. These wastes may best be described as:

Item No.	Estimated gallons or pounds per year
<input type="checkbox"/> Acids	
<input type="checkbox"/> Alkalies	
<input type="checkbox"/> Heavy metal sludges	
<input type="checkbox"/> Inks/dyes	
<input type="checkbox"/> Oil and/or grease	
<input type="checkbox"/> Organic compounds	
<input type="checkbox"/> Paints	
<input type="checkbox"/> Pesticides	
<input type="checkbox"/> Plating wastes	
<input type="checkbox"/> Pretreatment sludges	
<input type="checkbox"/> Solvents/thinners	
<input type="checkbox"/> Other hazardous wastes (specify)	
<input type="checkbox"/> Other wastes (specify)	

B8. For the above checked wastes, does your company practice:

<input type="checkbox"/> Onsite storage	
location	
<input type="checkbox"/> Offsite storage	
hauler's name	
address	
hauler's DEQ permit #	
phone number	
<input type="checkbox"/> Onsite disposal	
<input type="checkbox"/> Offsite disposal	
hauler's name	
address	
hauler's DEQ permit #	
phone number	

Describe the method(s) of storage or disposal checked above.

Do you have an EPA or DEQ permit for storage or hauling? ☐ Yes ☐ No If yes, attach a copy of the permit.

- B9. List all principal materials regularly used in your facility that may be present in your wastewater discharge (such as cleaning agents, solvents, food processing waste, plating solutions, catalysts, milk wastes, ink, etc.). Identify chemical constituents, if known, or brand name. Attach material safety data sheets.

Generic Type	Amount Per Year	Discharged to		Spill Potential		Chemical Constituents or Brand Name
		Storm	Sanitary	Storm	Sanitary	
a. Example: Degreaser	3 gallons			X		Trichloroethylene
b. SEE THE ATTACHED FIRE MARSHALL'S SURVEY FOR 1993						
c.						
d.						
e.						
f.						
g.						
h.						
i.						
j.						
k.						

(Attach additional sheets if necessary)

- B10. Have you listed with the Fire Bureau the onsite storage of flammable or combustible liquids or solids, hazardous chemicals, or radioactive materials?
☒ Yes ☐ No

If yes, list materials, if any, and their scientific or common and brand names and what quantities are being stored (use extra sheets if needed or attach a copy of Fire Bureau list).

S-Scientific/C-Common	Brand Name	Lbs or Gallons
a. SEE THE ATTACHED FIRE MARSHALL'S SURVEY FOR 1993		
b.		
c.		
d.		

- B11. Do you have an accidental spill prevention program for the facility? ☒ Yes ☐ No Emergency response plan? ☒ Yes ☐ No
 If yes, attach plans.

- B12. Characteristics of Wastewater:

- a. Temperature _____ Don't know ☐
 b. pH level _____ Don't know ☐
 c. Flammable or explosive materials Yes ☐ No ☒ Don't know ☐
 d. Solid or viscous materials Yes ☐ No ☒ Don't know ☐
 e. Priority pollutants Yes ☐ No ☐ Don't know ☐ If yes, complete Attachment A.
 (See Attachment A for the priority pollutants list.)

- B13. Attach any wastewater analysis that has been performed on the wastewater discharge(s) from your facilities in the last year. Attach a copy of the most recent lab data to this questionnaire. Be sure to include the date of the analysis, name of laboratory performing the analysis, and location(s) from which sample(s) were taken (attach sketches, plans, etc., as necessary).

B14. If your facility uses processes in any of the industrial categories or business activities listed below and any of these processes generate or cogenerate wastewater or waste sludge, place a check beside the category or business activity (check all that apply).

a. Industrial Categories

EPA

Category

Code

Category

- | | | |
|-----------|--------------------------|--|
| 467 | <input type="checkbox"/> | Aluminum forming |
| 461 | <input type="checkbox"/> | Battery manufacturing |
| 434 | <input type="checkbox"/> | Coal mining |
| 465 | <input type="checkbox"/> | Coil coating |
| 468 | <input type="checkbox"/> | Copper forming |
| 469 | <input type="checkbox"/> | Electric & electronic components |
| 413 | <input type="checkbox"/> | Electroplating (If checked, please complete Attachment B) |
| 415 | <input type="checkbox"/> | Inorganic chemicals |
| 420 | <input type="checkbox"/> | Iron & steel |
| 425 | <input type="checkbox"/> | Leather tanning & finishing |
| 433 | <input type="checkbox"/> | Metal Finishing (If checked, please complete Attachment B) |
| 464 | <input type="checkbox"/> | Metal molding & casting (Foundries) |
| 471 | <input type="checkbox"/> | Nonferrous metals forming |
| 421 | <input type="checkbox"/> | Nonferrous metals manufacturing |
| 414 & 416 | <input type="checkbox"/> | Organic chemicals, plastics, & synthetic fibers |
| 455 | <input type="checkbox"/> | Pesticides |
| 419 | <input type="checkbox"/> | Petroleum refining |
| 439 | <input type="checkbox"/> | Pharmaceuticals |
| 463 | <input type="checkbox"/> | Plastics processing |
| 466 | <input type="checkbox"/> | Porcelain enamel |
| 430 & 431 | <input type="checkbox"/> | Pulp, paper, and fiberboard |
| 428 | <input type="checkbox"/> | Rubber |
| 423 | <input type="checkbox"/> | Steam electric |
| 410 | <input type="checkbox"/> | Textile mills |
| 429 | <input type="checkbox"/> | Timber products (wood preserving) |

b. Other Business Activity

- | | | |
|-----------|--------------------------|----------------------------------|
| | <input type="checkbox"/> | Adhesives |
| | <input type="checkbox"/> | Analytical laboratories |
| | <input type="checkbox"/> | Auto laundries |
| | <input type="checkbox"/> | Beverage bottling |
| | <input type="checkbox"/> | Can making |
| 405 | <input type="checkbox"/> | Dairy products |
| | <input type="checkbox"/> | Dry Cleaners |
| 457 | <input type="checkbox"/> | Explosives manufacturing |
| | <input type="checkbox"/> | Food/edible products processor |
| | <input type="checkbox"/> | Gas stations |
| 454 | <input type="checkbox"/> | Gum & wood chemicals |
| | <input type="checkbox"/> | Health services |
| 460 | <input type="checkbox"/> | Hospital |
| | <input type="checkbox"/> | Laundries |
| | <input type="checkbox"/> | Machine shops |
| | <input type="checkbox"/> | Mechanical products |
| 440 | <input type="checkbox"/> | Ore mining |
| 446 & 447 | <input type="checkbox"/> | Paint & ink |
| 459 | <input type="checkbox"/> | Photographic supplies |
| | <input type="checkbox"/> | Printing & publishing |
| | <input type="checkbox"/> | Radiator Shops |
| | <input type="checkbox"/> | Slaughter/meat packing/rendering |
| 417 | <input type="checkbox"/> | Soaps & detergents |
| | <input type="checkbox"/> | Used oil reclaimers |
| | <input type="checkbox"/> | Waste recycler |
| | <input type="checkbox"/> | Other _____ |

B15. Attach a simple schematic drawing(s) of your facility, indicating: (Drawings should be 11 x 17, or smaller)

- a. Location and size of all service outlets, process drains, floor drains
- b. Existing sampling manholes or locations where samples may be collected
- c. Current or planned flow metering equipment
- d. Current or planned automatic sampling equipment
- e. Location of pretreatment processes, treated flows, and untreated flows
- f. Location and name of pertinent streets
- g. Flow schematic to indicate process and process discharge in gpd
- h. Chemical storage location
- i. Storm drain location, if known

SEE ATTACHED FLOW CHART

B16. Pretreatment devices or processes used for treating wastewater or sludge (check as many as appropriate).

- ☐ Air flotation
- ☐ Carbon filtration
- ☐ Centrifuge
- ☐ Chemical precipitation
- ☐ Chlorination
- ☐ Cyclone
- ☐ Evaporation
- ☐ Filtration
- ☐ Filtration, Multi-media
- ☐ Filtration, Rotary
- ☐ Filtration, Sand
- ☐ Flow equalization
- ☐ Grease or oil separation, type _____
- ☐ Grease trap
- ☐ Grinding filter
- ☐ Grit removal
- ☐ Ion exchange
- ☐ Neutralization, pH correction
- ☐ Ozonation
- ☐ Reverse osmosis
- ☐ Screen
- ☐ Sedimentation
- ☐ Septic tank
- ☐ Solvent separation
- ☐ Spill protection
- ☐ Sump
- ☐ Biological treatment, type _____
- ☐ Rainwater diversion or storage _____
- ☐ Other chemical treatment, type _____
- ☐ Other physical treatment, type _____
- ☐ Other, type _____
- ☐ No pretreatment provided

B17. Is additional pretreatment required? ☒ Yes ☐ No ☐ Don't know If yes, describe necessary pretreatment.

B18. Is industry in compliance with City industrial pretreatment ordinance? ☒ Yes ☐ No ☐ Don't Know
See ordinance.

B19. Is industry in compliance with Federal Categorical standards? ☒ Yes ☐ No ☐ Don't Know

B20. Are any process changes or expansions planned during the next three years? ☐ Yes ☒ No
If yes, attach a separate sheet to this form describing the nature of planned changes or expansions.

B21. Please describe any previous spill events and remedial measures taken to prevent their reoccurrence:

OCCASIONAL SPILLAGE OF MATERIALS FROM LOADING AND UNLOADING OPERATIONS. PAVING AND
DIKING ADEQUATE TO CONTAIN MATERIALS. MOST MATERIALS CLEANED UP AND RECYCLED BACK
TO PRODUCT. ANY SOLID WASTE IS DISPOSED OF IN APPROPRIATE MANNER.

B22. Comments: THIS FACILITY DOES NOT PRODUCE PROCESS WASTEWATER. STORMWATER IS DISCHARGED
THROUGH REGULATED OUTFALL INTO WILLAMETTE RIVER IN COMPLIANCE WITH NPDES PERMIT
#101003. ONLY SANITARY WASTE IS DISCHARGED TO SEWER TO CITY OF PORTLAND.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature* 

Title PLANT MANAGER

Date 8/8/94

*This form should be signed by a responsible corporate officer, a general partner, or by a duly authorized representative. See 40 CFR 403.12(i) for full definition.

Attachment A
PRIORITY POLLUTANT INFORMATION

1. Please indicate by placing an "X" in the appropriate space by each listed chemical whether it is Suspected to be Absent, Known to be Absent, Suspected to be Present, or Known to be Present in your manufacturing or service activity or generated as a byproduct. Some compounds are known by other names. Please refer to the Priority Pollutant Synonym Listing for those compounds which have an asterisk (*).

Item No.	CASRN	Chemical Compound	Suspected Absent	Known Absent	Suspected Present	Known Present
1	7664417	ammonia				
2	1332214	asbestos (fibrous)				
3	57125	cyanide (total)				
4	7440360	antimony (total)				
5	7440382	arsenic (total)				
6	7440417	beryllium (total)				
7	7440439	cadmium (total)				
8	7440473	chromium (total)				
9	7440508	copper (total)				
10	7439921	lead (total)				
11	7439976	mercury (total)				
12	7440020	nickel (total)				
13	7782492	selenium (total)				
14	7440224	silver (total)				
15	7440280	thallium (total)				
16	7440666	zinc (total)				
17	83329	acenaphthene				
18	208968	acenaphthylene				
19	107028	acrolein				
20	107131	acrylonitrile				
21	309002	aldrin				
22	120127	anthracene				
23	71432	benzene				
24	92875	benzidine				
25	56553	benzo(a)anthracene*				
26	50328	benzo(a)pyrene*				
27	205992	benzo(b)fluoranthene				
28	191242	benzo(g,h,i)perylene*				
29	207089	benzo(k)fluoranthene*				
30	319846	a-BHC(alpha)				
31	319857	b-BHC(beta)				
32	319868	d-BHC(delta)				
33	58899	g-BHC(gamma)				
34	111444	bis(2-chloroethyl)ether*				
35	111911	bis(2-chloroethoxy)methane*				
36	108601	bis(2-chloroisopropyl)ether*				
37	542881	bis(chloromethyl)ether*				

Attachment A (Continued)

Item No.	CASRN	Chemical Compound	Suspected Absent	Known Absent	Suspected Present	Known Present
79		1,6-dinitro-2-methylphenol*				
80	51285	2,4-dinitrophenol				
81	121142	2,4-dinitrotoluene				
82	606202	2,6-dinitrotoluene				
83	122667	1,2-diphenylhydrazine*				
84	959988	endosulfan I*				
85	33213659	endosulfan II*				
86	1031078	endosulfan sulfate				
87	72208	endrin				
88	7421934	endrin aldehyde				
89	100414	ethylbenzene				
90	206440	fluoranthene				
91	86737	fluorene*				
92	76448	heptachlor				
93	1024573	heptachlor epoxide				
94	118741	hexachlorobenzene*				
95	87683	hexachlorobutadiene				
96	77474	hexachlorocyclopentadiene*				
97	67721	hexachloroethane*				
98	193395	indeno (1,2,3-cd)pyrene*				
99	78591	isophorone*				
100	74873	methylene chloride*				
101	91203	naphthalene				
102	98953	nitrobenzene				
103	88755	2-nitrophenol*				
104	100027	4-nitrophenol*				
105	62759	n-nitrosodimethylamine*				
106	621647	n-nitrosodipropylamine*				
107	86306	n-nitrosodiphenylamine*				
108	12674112	PCB-1016*				
109	11104282	PCB-1221*				
110	11141165	PCB-1232*				
111	53469219	PCB-1242*				
112	12672296	PCB-1248*				
113	11097691	PCB-1254*				
114	11096825	PCB-1260*				
115	87865	pentachlorophenol				
116	85018	phenanthrene				
117	108952	phenol				
118	129000	pyrene				
119	1746016	2,3,7,8-tetrachlorodibenzo-p-dioxin*				



CITY OF PORTLAND ENVIRONMENTAL SERVICES



1120 S.W. Fifth Ave., Room 400, Portland, Oregon 97204-1972
(503) 823-7740, FAX (503) 823-6995

April 6, 1994

Certification # P 369 202 439

Amos Kamerer, Plant Manager
KOPPERS
7540 NW St. Helens Rd.
Portland, OR 97210

APR 12 1994

Subject: Environmental Surveys/Permit Application

Dear Mr. Kamerer:

I am forwarding copies of Environmental Surveys and a Permit Application to be filled out in order to comply with the United States Environmental Protection Agency's (USEPA) legally mandated Industrial Pretreatment Program. The objective of the program is to protect and maintain the quality of our water supplies, rivers and groundwater. You are being asked to contribute to this effort by describing some operating characteristics and chemicals used in your operations.

Enclosed is **Environmental Survey form parts A and B**. Form A identifies if there is a non-domestic discharge from your facility. Form B is required for characterizing the sources of non-domestic discharge from your facility, if any. Also enclosed is a **Permit Application** which is needed to begin the permitting process. KOPPERS is identified as a Categorical Industry by EPA's Code of Federal Regulations and therefore must be monitored under a permit. Because your company does not discharge to the City sewer system, KOPPERS will receive a Non-Discharging Permit.

We request the surveys and permit application be returned by **July 8, 1994**. A payment in the amount of **\$75.00** is required to cover the cost of issuing the permit. Please include a check payable to the City of Portland with your submission. Send all correspondence and completed forms to :

Christina K. Anderson, Permit Manager
Bureau of Environmental Services
1120 S.W. 5th Avenue, Room 400
Portland, OR 97204-1972

*Note 7/29/94 Phone call
Linda Scheffler
503-823-7746
Discussed forms etc and requested
another extension - OK*

For your information enclosed is Chapter 17.34 of the City code, Industrial Wastewater Discharges, a copy of the Bureau of Environmental Services' Administrative Rules adopted under this chapter, and an Informational Handout concerning the Resource Conservation and Recovery Act (RCRA).

Sincerely yours,

Christina K. Anderson

Christina K. Anderson
Permit Manager

CITY OF PORTLAND
ENVIRONMENTAL SERVICES
1120 S.W. 5th Ave., Room 400, Portland, OR 97204-1972

Christina K. Anderson
Permit Manager/Inspector
Phone: (503) 823-7588
Fax: (503) 823-5228

S:\IU-K\KOPPERS\PERMIT\94SURVEY.AB





MUNICIPAL PRETREATMENT PROGRAM



SOURCE CONTROL DIVISION
BUREAU OF ENVIRONMENTAL SERVICES
CITY OF PORTLAND

Job #0021



CITY OF
PORTLAND, OREGON
BUREAU OF ENVIRONMENTAL SERVICES

Earl Blumenauer, Commissioner
Mary T. Nolan, Director
1120 S.W. 5th, Rm. 400
Portland, Oregon 97204-1972
(503) 796-7740
FAX: (503) 796-6995

INDUSTRIAL WASTEWATER DISCHARGE
PERMIT APPLICATION

General Instructions

This form serves as a basis for Industrial Wastewater Discharge Permit Issuance. The City will be verifying data contained in the returned form through phone calls and site visits. Please take the time to fill out the form thoroughly and adequately. Enclosed are copies of the environmental survey submitted for your reference. All questions should be answered. (Process wastewater also includes such items as spent solvents and chemicals dumped down floor drains and sinks.)

- Section I Water/Wastewater Data: completed by all users discharging or preparing to discharge process wastewater.
- Section II Business/Facility Description: completed by all users discharging or proposing to discharge process wastewater.
- Section III Permit Application Monitoring Form: to be completed by all industrial users. The Permit Application Monitoring Form satisfies Baseline Monitoring Requirements for categorical industrial users.
- Attachment A Process schematic flow form
Attachment B Building layout form

Sections II and III contain specific instructions and examples to help you answer the questions. The instructions are located on the backside of the pages.

New Facilities Proposing to Discharge Wastewater:

Please supply as much information as possible, providing the best estimates where appropriate.

Categorical Users:

EPA has published specific federal standards called "categorical pretreatment standards." Industrial facilities covered by these standards are commonly termed "categorical users."

Compliance with Pretreatment Standards:

Industrial and commercial facilities that have or will have a process wastewater discharge are required to comply with federal standards and local standards (generally prohibitive and specific limits such as heavy metals and cyanide), whichever apply or are more stringent. In most cases, the City may not know which standards apply until it reviews the general information that you provide.

Instructions

General Information

Note to Signing Official

Information must be typewritten or clearly printed. Attach additional sheets with section and item number indicated, if needed to provide complete information. Signing official must have authorization to provide such information on behalf of the company, corporation, or partnership. Please complete a form for each facility that discharges to the City sanitary sewer system. Additional copies can be obtained from the City. The address and phone number are provided below.

Please forward the completed form to the address shown below. If you have further questions, call the City at (796-7180).

Source Control Management
City of Portland
Bureau of Environmental Services
1120 SW 5th Ave
Portland, OR 97204

1. Enter the name or title of your business.
3. Enter facility address where discharge occurs, if different than mailing address.
4. Give the name of the person who is thoroughly familiar with the facts reported on this form and who can be contacted by the City staff.

Note:

1. The Qualified Certification pertains to the actual preparer of the report if different from the authorized representative.
2. The Authorized Representative may be either a corporate official, a partner, a fiduciary, or other duly authorized representative if this person is responsible for the overall operation of the facility from which the discharge originates.

Instructions

Section I—Water/Wastewater Data

PROVIDE CALCULATIONS TO SUPPORT ALL FIGURES IN TABLE 1.

1. **Water Use and Distribution**—Provide the daily average flows of water received and wastewater discharged in gallons per day for the last 12 months by dividing the total flows by the number of days that a discharge of water occurred (or operating day). For the water that is received from other than Water District services or discharged to other than community sanitary sewers, enter the location in the column headed "Source" or "Discharge To." Other source locations can include wells and rivers. Other discharge locations can include storm sewers, dry wells and receiving streams. Hourly and daily water supply meter readings may be used, provided the filling and discharge of storage tanks, process vats, etc., are taken into consideration.

For estimating sanitary flow use, 35 gallons for each employee.

Categorical users: Complete item 10 for providing flows for each of the regulated processes (process lines).

2. A batch discharge is one which results from the draining of storage tanks or process tanks: intermittent boiler blowdown, etc.
4. **Discharge Period:**
 - (a) Enter the hours of the day for each day, during which waste from this Business Activity will be discharged to the sewer: e.g., from 6 a.m. to 5 p.m.
 - (b) Enter the time and duration of discharge other than continuous flows (15 minutes every hour).
5. **Variation in Operation:**

Indicate whether the business activity is continuous throughout the year or if it is seasonal. If the activity is seasonal, circle the months of the year during which discharge occurs. Make any comments you feel are required to describe the variation in operation of your business activity.
6. Go to Attachment A for form, instructions, and examples.
7. Go to Attachment B for form, instructions, and examples.

Instructions

Section I--Water/Wastewater Data

No Instructions for items 8.-13.

Instructions

Section II--Business/Facility Description

1. **Business Activity**--Describe the principal activity on the premises. For the purpose of completing this Part, an activity is a major class of manufacturing. Enter the Standard Industrial Classification (SIC) Code Number, as found in the 1972 Edition of Standard Industrial Classification Manual prepared by the Executive Office of the President, Office of Management and Budget, which is available from the Government Printing Office at Washington, D.C., or at San Francisco, California. **DO NOT USE PREVIOUS EDITIONS OF THE MANUAL.** Copies are also available for examination at most public libraries. If you do not know, leave SIC No. blank.
 - (a) & (b) If not already provided in Attachment C, list all primary raw materials and chemicals used in the facility's operations. Avoid use of trade names of chemicals. If trade names are used, provide information regarding the active ingredients.
 - (c) **Product**--List the types of products, giving the common or brand name and the proper or scientific name. Enter from your records the average and maximum amounts produced daily for the activity for the previous calendar year, and the estimated daily production for this calendar year. Attach additional pages if necessary.
 - (d) **Description**--Describe the wastewater generating process occurring on the premises, including any seasonal variation in wastewater discharge volumes, plant operations, raw materials, and chemicals used in process and/or production.
 - (e) **Substances discharged**--Give common (brand names) and technical names (chemical, scientific or proper names) of each raw material and product that may be discharged to the sewer. Briefly describe the physical, (e.g., color) and chemical, (e.g., reacts with water) properties of each substance.

Instructions for Completing Section III

The remaining section will facilitate the collection of the necessary quantitative wastewater information to assist the City in establishing applicable pretreatment limits and requirements. NONCATEGORICAL FACILITIES are required to complete Section III, **PART A ONLY**. CATEGORICAL FACILITIES covered by federal categorical pretreatment standards ("categorical users") are required to complete Section III **PARTS A and B**.

Section III—Permit Application Monitoring Report: PARTS A and B

Section III **PART A** is to be completed by all facilities.

Section III **PART B** is additionally required for categorical industries.

Note:

New Facilities (categorical and noncategorical): new businesses moving into existing facilities and new business proposing to construct a new building. No discharge of process wastewaters has occurred. However, supply as much information as possible providing best estimates where appropriate.

Contact the City if there are any questions on what limits apply to the discharge, what pollutants to sample, sampling requirements, and where to take samples. The general instructions on the back of the form provide general information on sampling.

Instructions

Section III--Permit Application Monitoring

PART A: NON-CATEGORICAL INDUSTRIES

To be completed by noncategorical users. Attach additional sheets if needed. Contact the City before sampling, if not sure of pretreatment standards, sampling protocols.

1(a) Pollutants--List across the top specific pollutants (use abbreviations) regulated in the City code. Example: Copper - Cu.

- Daily Maximum and Monthly Average - Refer to the City code for pretreatment standards for the specific pollutant. Most cities have daily maximum pretreatment standards (limits), and not monthly averages.

Example: Daily maximum (Copper - Cu = 2 mg/L)
Monthly average (Zinc - Zn = 4 mg/L)

You would enter 2 under Cu and 4 under Zn.

- Reported maximum: Report the highest maximum concentration for the samples collected and analyzed.
- Reported average: If more than one sample was taken, average all the individual results and report the average in the spaces provided for each of the appropriate pollutants listed.
- Indicate type of samples (i.e., grab, flow proportioned composite, etc.), analytical methods, and number of samples taken. Indicate whether samples were taken of combined wastestreams. The industrial user must ascertain whether it can meet the pollutant standards. The type of discharge, i.e., batch, continuous, routine historical information (e.g., existing data pollutant discharge) etc, is a factor that should guide the industrial user regarding the number of samples to be taken to ascertain compliance. Where feasible, samples should be flow-proportional composites. Additionally, the time, date of sampling, and methods of analysis must be reported. Analytical methods must be performed in accordance with 40 CFR Part 136 and any amendments thereto. It is important that the samples be representative and taken during full production.

Each daily composite shall be analyzed separately.

2(a) New facilities have not begun to operate and/or discharge.

Instructions

Section III--Permit Application Monitoring Report

PART A: NON-CATEGORICAL INDUSTRIES

1(b) Compare the sample results against local pretreatment standards provided by the City (contained in City code).

- Describe any additional O&M pretreatment and provide compliance schedule. Specify the major events needed to achieve compliance, as well as the dates for completion of each event (i.e., hiring an engineer, completing preliminary plans, completing final plans, executing contracts, commencing construction, completing construction, etc.). The shortest possible schedule should be provided.

2. The certification pertains to the actual preparer of the report if different from the authorized representative.

The authorized representative may be either a corporate official, a partner, a fiduciary, or other duly authorized representative if this person is responsible for the overall operation of the facility from which the discharge originates.

Instructions

Section III—Permit Application Monitoring

PART B: CATEGORICAL USERS

1. List each regulated process, the production rate (i.e., 10,000 lbs. of (product name/unit time-week, month, year), the category, and subpart of the applicable Categorical Pretreatment Standard as well as the SIC code for each process.
2. Each industrial user will sample, analyze, and report on all pollutants regulated specific to each process (refer to appropriate subcategory in regulations for regulated pollutants). Where mass limits exist, the facility will have to report results in mass limits (concentration x regulated process flow in million gallons/day x 8.34). The BAT pretreatment standards are process-related. That is, a facility must comply with the standard at the end-of-the regulated process. However, EPA recognizes that many facilities combine their wastewater process lines, cooling H₂O, and sanitary discharge prior to treatment and discharge to municipal sewers. Hence, a facility can sample at a combined point, but will need to adjust the categorical limit it must meet by (i.e., calculate adjusted limits) employing the Combined Wastestream Formula that is contained in Section 403.6(e) of the General Pretreatment Regulations (Federal Register January 28, 19810. If this is the case with your facility, you must employ the formula and provide additional data for calculations. Contact the City for more guidance. Insert in the table the regulated pollutant (use abbreviations), the published average and maximum numerical limit for the particular pollutant found in the regulation, or adjusted limits as calculated by use of the combined wastestream formula, and the results of the sampling (average and maximum values).

Indicate type of samples (i.e., grab, flow proportioned composite, etc.), analytical method, and number of samples taken. Indicate whether samples were taken of combined wastestreams. The industrial user must ascertain whether it can meet the 30-day average, calculated average, daily maximum, or calculated maximum limit. The type of discharge, i.e., bath, continuous, routine historical information (e.g., existing data pollutant discharge) etc., is a factor that should guide the industrial user regarding the number of samples to be taken to ascertain compliance. Where feasible, samples should be flow-proportional composites. Additionally, the time, date of sampling, and 40 CFR Part 136 and any amendments thereto. It is important that the samples be representative and taken during full production. Minimum sampling requirements are:

Process flows less than 250,000 gpd—3 samples within 2-week period

Process flows greater than 250,000 gpd—6 samples within 2-week period

Instructions

Section III--Permit Application Monitoring

PART B: CATEGORICAL USERS

4. Facilities covered by a TTO pretreatment standard must initially sample for TTO and determine compliance. Analyses only have to be performed on toxic organics present. Contact City for list of toxics applicable to your operations.
- 4(a) Facilities that utilized none of the toxic organics can provide a certification statement in lieu of having to monitor for toxics.
- 4(d) Facilities whose sampling results indicate compliance with TTO standards can develop a solvent management plan in lieu of having to periodically sample for toxic organics. Contact the City of guidance.
- 5(a) In order to determine compliance with published or calculated mass-based categorical standards, a facility will need to compare its allowable mass limit (e.g., $Pb = \frac{.00261 \text{ lbs}}{1,000 \text{ lbs}} \times 200 \text{ lbs of steel produced} = 0.533 \text{ lb}$) against the actual mass loading derived from sampling (i.e., $\text{conc.} \times \text{regulated process flows} \times 8.34 = \text{lbs discharged}$). If categorical standards are published in concentration, then a facility only needs to compare the concentration of its effluent against the regulated standards for the particular pollutant.
- 5(c) Describe any additional O&M or pretreatment and attach a compliance schedule. Specify the major events needed to achieve compliance, as well as the dates for completion of each event (i.e., hiring an engineer, completing preliminary plans, completing final plans, executing contracts, commencing construction, completing construction, etc.). The shortest possible schedule should be provided.
6. The certification pertains to the actual preparer of the report if different from the authorized.

The authorized representative may be either a corporate official, a partner, a fiduciary, or other duly authorized representative if this person is responsible for the overall operation of the facility from which the discharge originates.

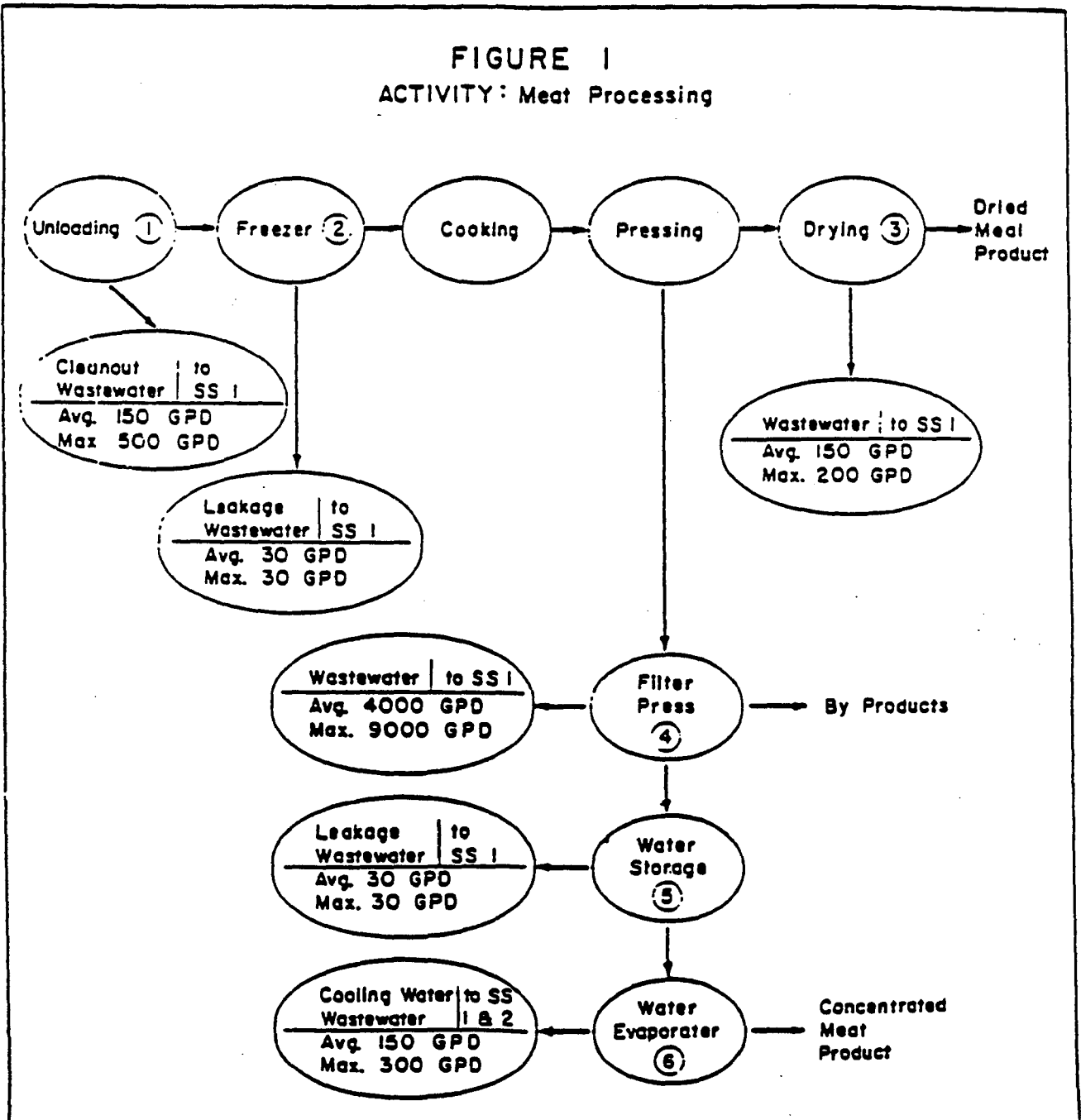
Instructions

PROCESS FLOW SCHEMATIC

Separate drawing should be completed for each major business activity.

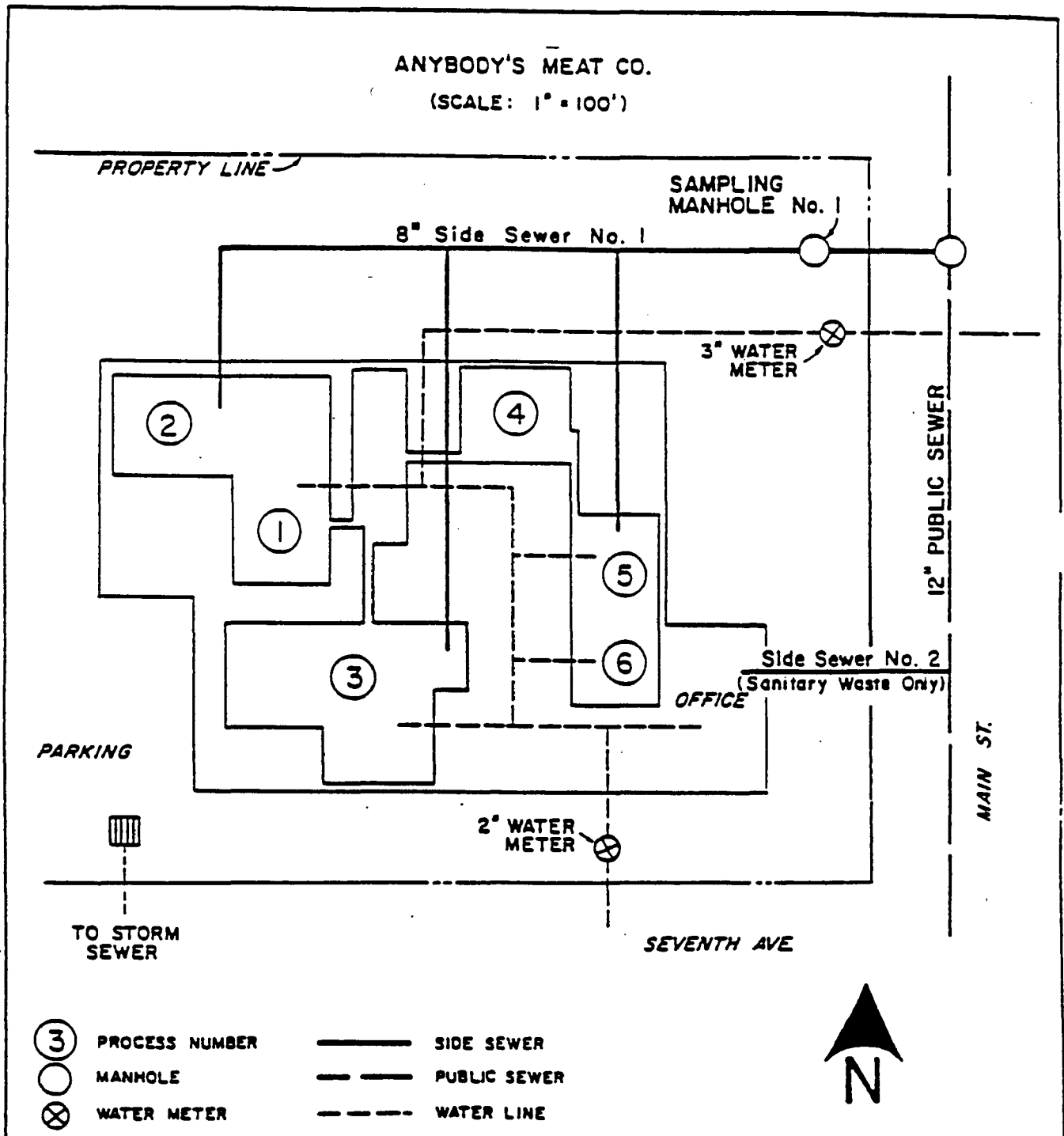
A line drawing (schematic flow diagram) of each major business activity is to be completed in the space below or drawn on an attached sheet of paper (all sheets should be letter size). Number each process which generates wastewater using the same numbering as in the building layout or plant site plan shown in the building layout schematic. An example of drawing required is shown below in Figure 1.

To determine your average daily volume and maximum daily volume of wastewater flow, you may have to read water meters, sewer meters, or make estimates of volumes that are not directly measurable.



Instructions

See example:



RETURN APPLICATION TO:
DEPARTMENT OF ENVIRONMENTAL QUALITY
BUSINESS OFFICE
811 S.W. Sixth Avenue
Portland, OR 97204
(503) 229-3309

APPLICATION
FOR RENEWAL OF
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT (NPDES-R)
STATE OF OREGON

DEQ USE ONLY
Appl. No.:
File No.: 47430
Received:
WQ EPA No.: CR-

A. REFERENCE INFORMATION

Koppers Industries, Inc.			Present Permit No.: <u>100419</u>		
Official Name of Applicant (Owner)			Date Expires: <u>11/30/92</u>		
Northwest Terminal			Enter Site Location by Latitude and Longitude:		
Facility Name			LATITUDE		
7540 Northwest Saint Helen's Road			LONGITUDE		
Address			1. Deg. 2. Min. 3. Sec.		
Portland OR 97229			1. Deg. 2. Min. 3. Sec.		
City State Zip			45 34 38 122 45 32		
John A. Oxford			Alternate Responsible Official or Chief Operator		
Responsible Official			Title		
Plant Manager			Address or Location		
7540 N.W. St. Helen's Road (503) 286-3681			Phone		
Portland, OR 97229			Address or Location		
Address or Location			Phone		

Description of activities requiring a permit from the Department: (Check all that apply.)

☐ Construct, install or modify waste collection, treatment, or disposal facilities.

☐ Operate waste collection, treatment, or disposal facilities.

☐ Discharge treated wastewaters into the waters of _____

☒ (Other) Discharge stormwater to Willamette River

B. GENERAL QUESTIONS

1. Have the treatment or disposal methods employed, as indicated in previous applications, been altered in any way since the last application was submitted? ☐ Yes ☒ No (If yes, explain.)

2. Has the quantity or quality of wastes discharged, as indicated in previous applications, been significantly changed in any way since the last application was submitted? ☐ Yes ☒ No (If yes, explain.)

C. SPECIAL QUESTIONS AND REQUESTED INFORMATION

1. If any changes in operations or waste quantity or quality are anticipated in the near future, please attach an explanation or proposal.

2. Please attach a brief report which indicates your progress in meeting the requirements and limitations of your present permit.

I HEREBY CERTIFY THAT THE INFORMATION CONTAINED IN THIS APPLICATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Lawrence F. Flaherty Vice President 7/7/92
Signature of Owner Title Date
(Or Legally Authorized Representative)

INSTRUCTION - PERMIT RENEWAL APPLICATION

- A. Reference Information: Complete the required information in detail. If there has been a name change, address change or change in personnel since the last application, please make a special note to that effect.
- B. General Questions: If more space is needed than provided on the application form, please attached as many additional pages as necessary in order to supply whatever explanation or diagrams are needed to update the treatment and disposal methods used and the characteristics of the waste discharged or otherwise disposed.
- C. Special Questions and Requested Information:
 - 1. Please elaborate on any proposed expansions, cutbacks, improvements or changes of any kind which will or may affect the quantity or quality of pollutants discharged.
 - 2. Each condition of your present permit should be reviewed and an assessment made as to the success you have had in meeting the requirements and limitations.

Signature on Application

The person who signs the application form will often be the applicant himself; when another person signs on behalf of the applicant, his title or relationship to the applicant should be shown in the space provided. In all cases, the persons signing the form should be authorized to do so by the applicant. An application submitted by a corporation must be signed by a principal executive officer of at least the level of vice president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge(s) described in the form originate. In the case of a partnership or a sole proprietorship, the application must be signed by a general partner or the proprietor, respectively. In the case of a municipal, State, Federal or other public facility, the application must be signed by either a principal executive officer, ranking elected official or other duly authorized employee.

Other Instructions

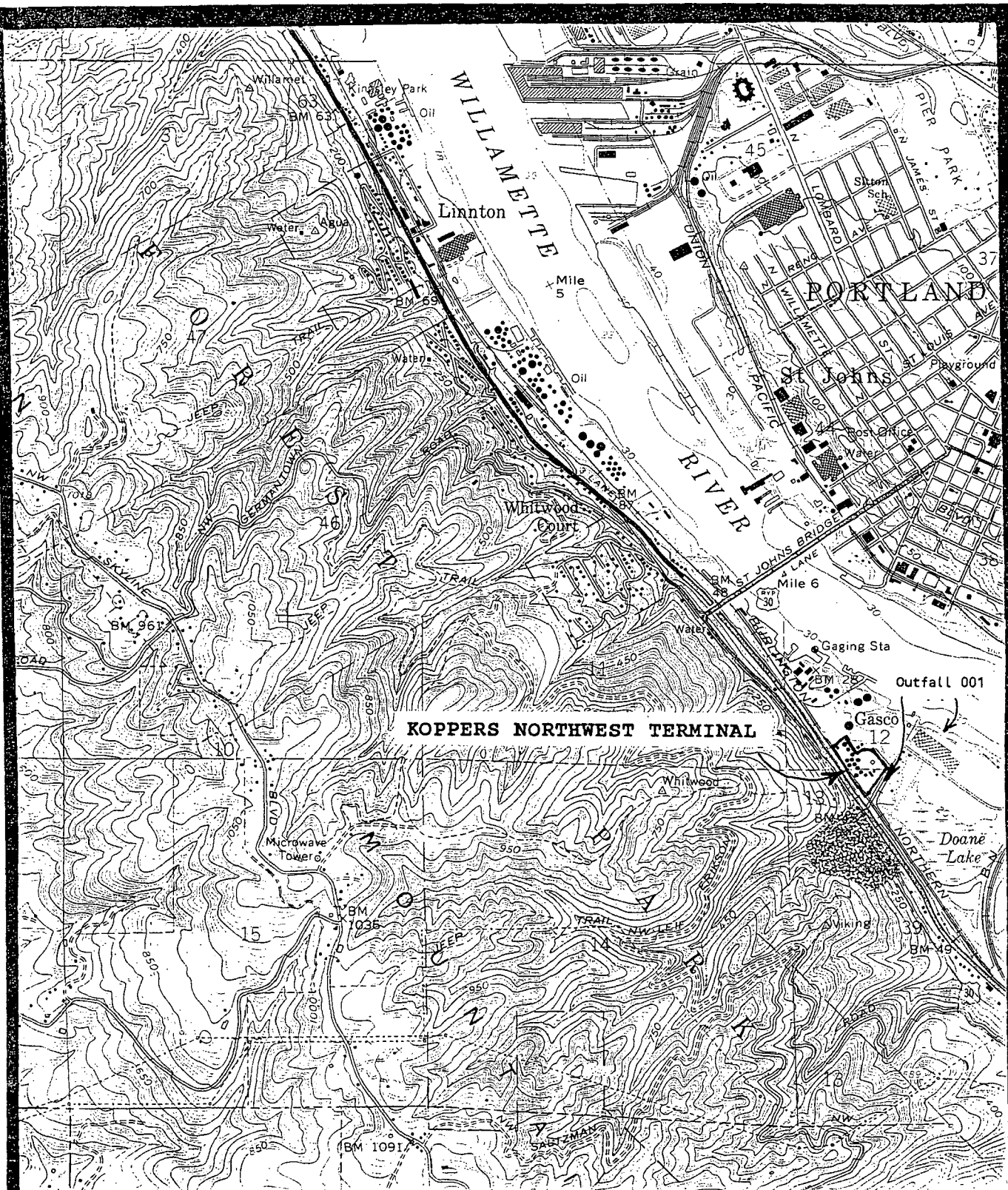
Submit this application as soon as possible. It should be submitted at least 130 days prior to the expiration of your present permit.

All NPDES Permit Applications are to be submitted to:

Department of Environmental quality
Business Office
811 S.W. Sixth Avenue
Portland, OR 97204

IW\WC7604

Koppers003224



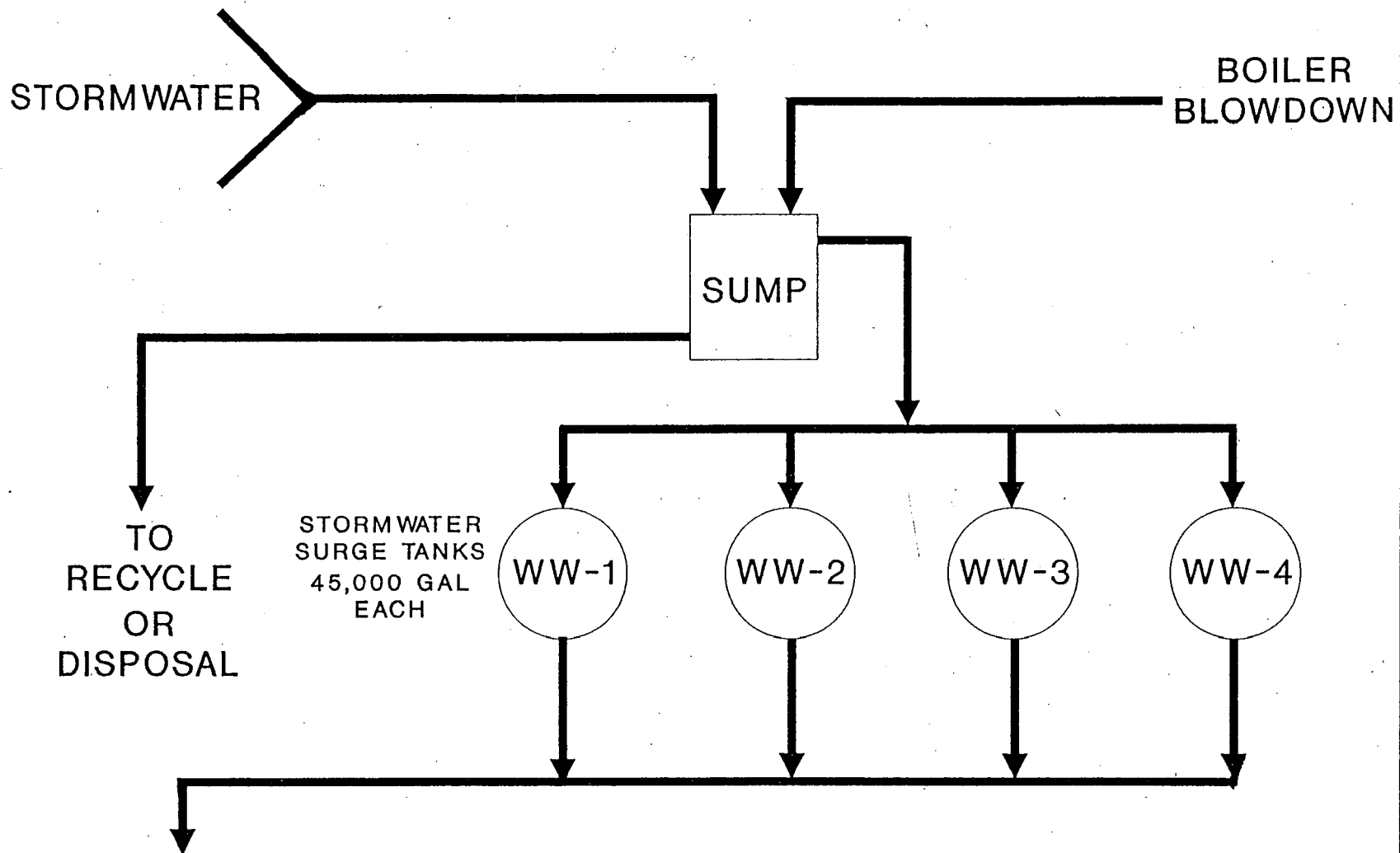
**KOPPERS
INDUSTRIES**

PITTSBURGH, PA

NORTHWEST TERMINAL

LATITUDE: 045D 34M 38S
LONGITUDE: 122D 45M 32S

USGS MAP
LINNTON
QUADRANGLE
OREGON
SERIES 7.5 MIN



OUTFALL 001
2700 GPD AVG
6000 GPD MAX

KOPPERS
INDUSTRIES

Pittsburgh, PA

WASTE WATER
FLOW PLAN

Northwest Terminal
Portland, OR

Please print or type in the unshaded areas only.

FORM
2C
NPDES



U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS
Consolidated Permits Program

I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

[illegible]

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (*e.g., for certain mining activities*), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

[illegible]

OFFICIAL USE ONLY (effluent guidelines sub-categories)

Koppers003227

CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☒ YES (complete the following table)☐ NO (go to Section III)

1. OUTFALL NUMBER (list)	2. OPERATION(s) CONTRIBUTING FLOW (list)	3. FREQUENCY		4. FLOW					
		a. DAYS PER WEEK (specify average)	b. MONTHS PER YEAR (specify average)	a. FLOW RATE (in mgd)		b. TOTAL VOLUME (specify with units)		c. DUR- ATION (in days)	
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY		
001	Stormwater	0.5	9	2.7	6.0	82.5/mo	180/mo	244	

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☒ YES (complete Item III-B)☐ NO (to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measure of operation)?

☐ YES (complete Item III-C)☒ NO (go to Section IV)

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION			2. AFFECTED OUTFALLS (list outfall numbers)
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. (specify)	

IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operation of waste-water treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to; permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☐ YES (complete the following table)☒ NO (go to Item IV-B)

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
	a. NO.	b. SOURCE OF DISCHARGE		a. REQUIRED	b. PROJECTED

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction. ☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

A, B, & C: See instructions before proceeding — Complete one set of tables for each outfall — Annotate the outfall number in the space provided.
NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
Quinoline	Coal Tar Constituent		

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☒ YES (list all such pollutants below)

☐ NO (go to Item VI-B)

Total Phenols
Benzene
Toluene
Phenols
Acenaphthene
Acenaphthylene
Chrysene
Fluoranthene
Fluorene
Naphthalene
Phenanthrene
Pyrene

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ YES (identify the test(s) and describe their purposes below)

☒ NO (go to Section VIII)

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

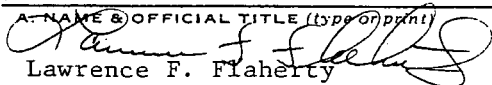
☒ YES (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)

☐ NO (go to Section IX)

A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
Coffey Laboratories, Inc.	12423 N.E. Whitaker Way Portland, OR 97230	(503) 254-1794	Form 2C Section V Parts A,B,C Full Scan

IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. NAME & OFFICIAL TITLE (type or print)  Lawrence F. Flaherty		B. PHONE NO. (area code & no.) (412) 227-2304
C. SIGNATURE		D. DATE SIGNED 7/7/92

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)

ORD027734359

Form Approved.
OMB No. 2040-0086
Approval expires 7-31-88

OUTFALL NO.
001

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT							3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	(1)	(2)	(1)	(2)	(1)	(2)				(1)	(2)	
	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS				CONCENTRATION	MASS	
a. Biochemical Oxygen Demand (BOD)	28						1	mg/l	lbs			
b. Chemical Oxygen Demand (COD)	50						1	mg/l	lbs			
c. Total Organic Carbon (TOC)	19						1	mg/l	lbs			
d. Total Suspended Solids (TSS)	13						1	mg/l	lbs			
e. Ammonia (as N)	0.3						1	mg/l	lbs			
f. Flow	VALUE 6000		VALUE 6000		VALUE 4000		22	N/A	gal	VALUE		
g. Temperature (winter)	VALUE 12		VALUE 12		VALUE 10		3	°C		VALUE		
h. Temperature (summer)	VALUE 26		VALUE 25		VALUE 20		3	°C		VALUE		
i. pH	MINIMUM 6.0	MAXIMUM 7.0	MINIMUM 6.0	MAXIMUM 6.6	<div></div>		23	STANDARD UNITS		<div></div>		

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Bromide (24959-67-9)		X	<0.5	ND					1	mg/l	lbs			
b. Chlorine Total Residual		X	<0.5	ND					1	mg/l	lbs			
c. Color	X		300	N/A					1	Pt-Co	N/A			
d. Fecal Coliform	X		114	N/A					1	Colonies 100 ml	N/A			
e. Fluoride (16984-48-8)	X		0.2	0.01					1	mg/l	lbs			
f. Nitrate- Nitrite (as N)	X		<0.3	ND					1	mg/l	lbs			

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'		3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	a. RECEIVED PRE-SENT	b. RECEIVED AD-SENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANAL-YES	a. CONCENTRATION	b. MASS	b. LONG TERM AVERAGE VALUE		d. NO. OF ANAL-YES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)	X		0.8	0.04					1	mg/l	lbs			
h. Oil and Grease	X		1.7	0.08	1.7	0.08	0.85	0.03	23	mg/l	lbs			
i. Phosphorus (as P), Total (7723-14-0)	X		0.2	0.01					1	mg/l	lbs			
j. Radioactivity														
(1) Alpha, Total		X	N/A	N/A					0	N/A	N/A			
(2) Beta, Total		X	N/A	N/A					0	N/A	N/A			
(3) Radium, Total		X	N/A	N/A					0	N/A	N/A			
(4) Radium 226, Total		X	N/A	N/A					0	N/A	N/A			
k. Sulfate (as SO ₄) (14808-79-8)	X		8.8	0.44					1	mg/l	lbs			
l. Sulfide (as S)	X		0.03	0.0015					1	mg/l	lbs			
m. Sulfite (as SO ₃) (14265-45-3)	X		<5.0	ND					1	mg/l	lbs			
n. Surfactants	X		0.72	0.036					1	mg/l	lbs			
o. Aluminum, Total (7429-90-5)	X		<0.1	ND					1	mg/l	lbs			
p. Barium, Total (7440-39-3)	X		0.017	<0.001					1	mg/l	lbs			
q. Boron, Total (7440-42-8)	X		0.1	0.005					1	mg/l	lbs			
r. Cobalt, Total (7440-48-4)	X		<0.05	ND					1	mg/l	lbs			
s. Iron, Total (7439-89-6)	X		5.8	0.29					1	mg/l	lbs			
t. Magnesium, Total (7439-95-4)	X		0.9	0.045					1	mg/l	lbs			
u. Molybdenum, Total (7439-98-7)	X		0.05	ND					1	mg/l	lbs			
v. Manganese, Total (7439-96-5)	X		5.5	0.275					1	mg/l	lbs			
w. Tin, Total (7440-31-5)	X		0.1	ND					1	mg/l	lbs			
x. Titanium, Total (7440-32-6)	X		0.05	ND					1	mg/l	lbs			

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TEST-ING RE-QUIRED	b. RE-LEASED PRE-SENT	c. RE-LEASED AS-SENT	8. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)		d. NO. OF ANAL- YSES	a. CONCENTRATION	b. MASS	8. LONG TERM AVERAGE VALUE		b. NO. OF ANAL- YSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)	X			< 200	ND					1	ug/l	lbs			
2V. Acrylonitrile (107-13-1)	X			< 200	ND					1	ug/l	lbs			
3V. Benzene (71-43-2)	X			< 2	ND					1	ug/l	lbs			
4V. Bis (Chloro-methyl) Ether (542-88-1)	X			< 0.5	ND					1	ug/l	lbs			
5V. Bromoform (75-25-2)	X			< 1	ND					1	ug/l	lbs			
6V. Carbon Tetrachloride (56-23-5)	X			< 0.5	ND					1	ug/l	lbs			
7V. Chlorobenzene (108-90-7)	X			< 0.5	ND					1	ug/l	lbs			
8V. Chlorodi-bromomethane (124-48-1)	X			< 0.5	ND					1	ug/l	lbs			
9V. Chloroethane (75-00-3)	X			< 10	ND					1	ug/l	lbs			
10V. 2-Chloro-ethylvinyl Ether (110-75-8)	X			< 50	ND					1	ug/l	lbs			
11V. Chloroform (67-66-3)	X			< 0.5	ND					1	ug/l	lbs			
12V. Dichloro-bromomethane (75-27-4)	X			< 0.5	ND					1	ug/l	lbs			
13V. Dichloro-difluoromethane (75-71-8)	X			< 5	ND					1	ug/l	lbs			
14V. 1,1-Dichloro-ethane (75-34-3)	X			< 0.5	ND					1	ug/l	lbs			
15V. 1,2-Dichloro-ethane (107-06-2)	X			< 1	ND					1	ug/l	lbs			
16V. 1,1-Dichloro-ethylene (75-35-4)	X			< 0.5	ND					1	ug/l	lbs			
17V. 1,2-Dichloro-propane (78-87-5)	X			< 1	ND					1	ug/l	lbs			
18V. 1,3-Dichloro-propylene (542-75-6)	X			< 0.5	ND					1	ug/l	lbs			
19V. Ethylbenzene (100-41-4)	X			< 1	ND					1	ug/l	lbs			
20V. Methyl Bromide (74-83-9)	X			< 10	ND					1	ug/l	lbs			
21V. Methyl Chloride (74-87-3)	X			< 10	ND					1	ug/l	lbs			

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
ORD027734359	001

Form Approved.
OMB No. 2040-0086
Approval expires 7-31-88

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C: If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)	X			<0.1	ND					1	mg/l	lbs			
2M. Arsenic, Total (7440-38-2)	X			<0.1	ND					1	mg/l	lbs			
3M. Beryllium, Total, (7440-41-7)	X			<0.005	ND					1	mg/l	lbs			
4M. Cadmium, Total (7440-43-9)	X			<0.05	ND					1	mg/l	lbs			
5M. Chromium, Total (7440-47-3)	X			<0.05	ND					1	mg/l	lbs			
6M. Copper, Total (7440-50-8)	X			<0.05	ND					1	mg/l	lbs			
7M. Lead, Total (7439-92-1)	X			<0.1	ND					1	mg/l	lbs			
8M. Mercury, Total (7439-97-6)	X			<0.0005	ND					1	mg/l	lbs			
9M. Nickel, Total (7440-02-0)	X			<0.05	ND					1	mg/l	lbs			
10M. Selenium, Total (7782-49-2)	X			<0.1	ND					1	mg/l	lbs			
11M. Silver, Total (7440-22-4)	X			<0.05	ND					1	mg/l	lbs			
12M. Thallium, Total (7440-28-0)	X			<0.1	ND					1	mg/l	lbs			
13M. Zinc, Total (7440-66-6)	X			<0.05	ND					1	mg/l	lbs			
14M. Cyanide, Total (57-12-5)	X			0.02	0.001					1	mg/l	lbs			
15M. Phenols, Total	X			0.25	0.013	0.25	0.013	0.156	0.005	23	mg/l	lbs			

DIOXIN

2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS
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Koppers003234

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT								4. UNITS		5. INTAKE (optional)		
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	B. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANALYSES	B. CONCENTRATION	D. MASS	B. LONG TERM AVERAGE VALUE		D. NO. OF ANALYSES	
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS		
3C/MS FRACTION – VOLATILE COMPOUNDS (continued)																
2V. Methylene Chloride (75-09-2)	X			<2	ND					1	ug/l	lbs				
3V. 1,1,2,2-Tetrachloroethane (79-34-5)	X			<0.5	ND					1	ug/l	lbs				
4V. Tetrachloroethylene (127-18-4)	X			<0.5	ND					1	ug/l	lbs				
5V. Toluene (108-88-3)	X			1	<0.0001					1	ug/l	lbs				
6V. 1,2-Trans-Dichloroethylene (156-60-5)	X			<0.5	ND					1	ug/l	lbs				
7V. 1,1,1-Trichloroethane (71-55-6)	X			<0.5	ND					1	ug/l	lbs				
8V. 1,1,2-Trichloroethane (79-00-5)	X			<0.5	ND					1	ug/l	lbs				
9V. Trichloroethylene (79-01-6)	X			<0.5	ND					1	ug/l	lbs				
10V. Trichlorofluoromethane (75-69-4)	X			<1	ND					1	ug/l	lbs				
11V. Vinyl chloride (75-01-4)	X			<10	ND					1	ug/l	lbs				
3C/MS FRACTION – ACID COMPOUNDS																
A. 2-Chlorophenol (95-57-8)	X			<1	ND					1	ug/l	lbs				
A. 2,4-Dichlorophenol (120-83-2)	X			<1	ND					1	ug/l	lbs				
A. 2,4-Dimethylphenol (105-67-9)	X			<2	ND					1	ug/l	lbs				
A. 4,6-Dinitro-O-cresol (534-52-1)	X			<5	ND					1	ug/l	lbs				
A. 2,4-Dinitrophenol (51-28-5)	X			<50	ND					1	ug/l	lbs				
A. 2-Nitrophenol (98-75-5)	X			<10	ND					1	ug/l	lbs				
A. 4-Nitrophenol (100-02-7)	X			<100	ND					1	ug/l	lbs				
A. P-Chloro-M-cresol (59-50-7)	X			<2	ND					1	ug/l	lbs				
A. Pentachlorophenol (87-86-5)	X			<5	ND					1	ug/l	lbs				
0A. Phenol (108-95-2)	X			<5	ND					1	ug/l	lbs				
1A. 2,4,6-Trichlorophenol (88-06-2)	X			<2	ND					1	ug/l	lbs				

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	A. TEST-ING RE-QUIR-ED	B. BE-LIEVED PRE-SENT	C. BE-LIEVED AB-SENT	B. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANAL- YSES	B. CONCENT-TRATION	b. MASS	8. LONG TERM AVERAGE VALUE		b. NO. OF ANAL- YSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENT-TRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)	X			< 1	ND					1	ug/l	lbs			
2B. Acenaphtylene (208-96-8)	X			< 1	ND					1	ug/l	lbs			
3B. Anthracene (120-12-7)	X			1	<0.0001					1	ug/l	lbs			
4B. Benzidine (92-87-5)	X			< 200	ND					1	ug/l	lbs			
5B. Benzo (a) Anthracene (56-55-3)	X			< 3	ND					1	ug/l	lbs			
6B. Benzo (a) Pyrene (50-32-8)	X			< 5	ND					1	ug/l	lbs			
7B. 3,4-Benzo-fluoranthene (205-99-2)	X			< 5	ND					1	ug/l	lbs			
8B. Benzo (ghi) Perylene (191-24-2)	X			< 5	ND					1	ug/l	lbs			
9B. Benzo (k) Fluoranthene (207-08-9)	X			< 5	ND					1	ug/l	lbs			
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)	X			< 1	ND					1	ug/l	lbs			
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)	X			< 1	ND					1	ug/l	lbs			
12B. Bis (2-Chloroisopropyl) Ether (102-60-1)	X			< 1	ND					1	ug/l	lbs			
13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7)	X			< 2	ND					1	ug/l	lbs			
14B. 4-Bromo-phenyl Phenyl Ether (101-55-3)	X			< 2	ND					1	ug/l	lbs			
15B. Butyl Benzyl Phthalate (85-68-7)	X			< 5	ND					1	ug/l	lbs			
16B. 2-Chloro-naphthalene (91-58-7)	X			< 1	ND					1	ug/l	lbs			
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)	X			< 1	ND					1	ug/l	lbs			
18B. Chrysene (218-01-9)	X			< 3	ND					1	ug/l	lbs			
19B. Dibenzo (a,h) Anthracene (53-70-3)	X			< 5	ND					1	ug/l	lbs			
20B. 1,2-Dichloro-benzene (95-50-1)	X			< 1	ND					1	ug/l	lbs			
21B. 1,3-Dichloro-benzene (541-73-1)	X			< 1	ND					1	ug/l	lbs			

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	A. TEST-ING RE-QUIRED	B. RECEIVED PRE-TREATMENT	C. RECEIVED POST-TREATMENT	B. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		E. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANAL- YSES	B. CONCENT- TRATION	D. MASS	F. LONG TERM AVERAGE VALUE		D. NO. OF ANAL- YSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENT- THATION	(2) MASS	
3C/MS FRACTION -- BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichloro- benzene (106-46-7)	X			< 1	ND					1	ug/l	lbs			
23B. 3,3'-Dichloro- benzidine (91-94-1)	X			< 50	ND					1	ug/l	lbs			
24B. Diethyl Phthalate (84-66-2)	X			< 5	ND					1	ug/l	lbs			
25B. Dimethyl Phthalate (131-11-3)	X			< 1	ND					1	ug/l	lbs			
26B. DI-N-Butyl Phthalate (84-74-2)	X			< 1	ND					1	ug/l	lbs			
27B. 2,4-Dinitro- toluene (121-14-2)	X			< 5	ND					1	ug/l	lbs			
28B. 2,6-Dinitro- toluene (606-20-2)	X			< 5	ND					1	ug/l	lbs			
29B. DI-N-Octyl Phthalate (117-84-0)	X			< 2	ND					1	ug/l	lbs			
30B. 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)	X			< 5	ND					1	ug/l	lbs			
31B. Fluoranthene (206-44-0)	X			6	<0.0003					1	ug/l	lbs			
32B. Fluorene (86-73-7)	X			< 1	ND					1	ug/l	lbs			
33B. Hexachlorobenzene (118-74-1)	X			< 1	ND					1	ug/l	lbs			
34B. Hexa- chlorobutadiene (87-68-3)	X			< 2	ND					1	ug/l	lbs			
35B. Hexachloro- cyclopentadiene (77-47-4)	X			< 5	ND					1	ug/l	lbs			
36B. Hexachloro- ethane (67-72-1)	X			< 3	ND					1	ug/l	lbs			
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)	X			< 5	ND					1	ug/l	lbs			
38B. Isophorone (78-59-1)	X			< 2	ND					1	ug/l	lbs			
39B. Naphthalene (91-20-3)	X			< 1	ND					1	ug/l	lbs			
40B. Nitrobenzene (98-95-3)	X			< 2	ND					1	ug/l	lbs			
41B. N-Nitro- sodimethylamine (62-75-9)	X			< 50	ND					1	ug/l	lbs			
42B. N-Nitrosodi- N-Propylamine (621-64-7)	X			< 5	ND					1	ug/l	lbs			

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	A. TEST- ING RE- QUIRED	B. DE- LIVERED PRE- SENT	C. DE- LIVERED AD- JEST	B. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANAL- YSES	a. CONCENTRATION	b. MASS	B. LONG TERM AVERAGE VALUE		D. NO. OF ANAL- YSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitro- sodiphenylamine (86-30-6)	X			< 5	ND					1	ug/l	lbs			
44B. Phenanthrene (85-01-8)	X			< 1	ND					1	ug/l	lbs			
45B. Pyrene (129-00-0)	X			1	< 0.0005					1	ug/l	lbs			
46B. 1,2,4 - Tri- chlorobenzene (120-82-1)	X			< 1	ND					1	ug/l	lbs			
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)	X			< 3	ND					1	ug/l	lbs			
2P. α -BHC (319-84-6)	X			< 5	ND					1	ug/l	lbs			
3P. β -BHC (319-85-7)	X			< 5	ND					1	ug/l	lbs			
4P. γ -BHC (58-89-9)	X			< 5	ND					1	ug/l	lbs			
5P. δ -BHC (319-86-8)	X			< 5	ND					1	ug/l	lbs			
6P. Chlordane (57-74-9)	X			< 50	ND					1	ug/l	lbs			
7P. 4,4'-DDT (50-29-3)	X			< 5	ND					1	ug/l	lbs			
8P. 4,4'-DDE (72-55-9)	X			< 5	ND					1	ug/l	lbs			
9P. 4,4'-DDD (72-54-8)	X			< 5	ND					1	ug/l	lbs			
10P. Dieldrin (60-57-1)	X			< 5	ND					1	ug/l	lbs			
11P. α -Endosulfan (115-29-7)	X			< 20	ND					1	ug/l	lbs			
12P. β -Endosulfan (115-29-7)	X			< 20	ND					1	ug/l	lbs			
13P. Endosulfan Sulfate (1031-07-8)	X			< 20	ND					1	ug/l	lbs			
14P. Endrin (72-20-8)	X			< 100	ND						ug/l	lbs			
15P. Endrin Aldehyde (7421-93-4)	X			< 100	ND					1	ug/l	lbs			
16P. Heptachlor (76-44-8)	X			< 2	ND					1	ug/l	lbs			

CONTINUED FROM PAGE V-8

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
ORD027734359	001

Form Approved.
OMB No. 2040-0086
Approval expires 7-31-88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	A. TEST ING. RE- QUIR- ED	B. BE- LIEVED PRE- SENT	C. BE- LIEVED AB- SENT	B. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		E. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANAL- YSES	B. CONCENTRATION	D. MASS	F. LONG TERM AVERAGE VALUE		D. NO. OF ANAL- YSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION — PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024-57-3)	X			<5	ND					1	ug/l	lbs			
18P. PCB-1242 (53469-21-9)	X			<100	ND					1	ug/l	lbs			
19P. PCB-1254 (11097-69-1)	X			<100	ND					1	ug/l	lbs			
20P. PCB-1221 (11104-28-2)	X			<100	ND					1	ug/l	lbs			
21P. PCB-1232 (11141-16-5)	X			<100	ND					1	ug/l	lbs			
22P. PCB-1248 (12672-29-6)	X			<100	ND					1	ug/l	lbs			
23P. PCB-1260 (11096-82-5)	X			<100	ND					1	ug/l	lbs			
24P. PCB-1016 (12674-11-2)	X			<100	ND					1	ug/l	lbs			
25P. Toxaphene (8001-35-2)	X			<100	ND					1	ug/l	lbs			

PAGE V-9

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

North side p. tail
wise

stop

boiler

unloading sta.

CONTINGENCY PLAN,
SPILL PREVENTION, CONTROL,
AND COUNTERMEASURES (SPCC) PLAN
AND
STORM WATER POLLUTION PREVENTION PLAN
KOPPERS INDUSTRIES, INC.
NORTHWEST TERMINAL
7540 NW Saint Helens Rd.
PORTLAND, OR 97210-3663
July 11, 2002

- CERTIFICATION

I here by certify that I have inspected the subject facility, and being familiar with the provisions of 40 CFR 112 for SPCC requirements and 40 CFR 122 for Storm Water Pollution Prevention requirements, attest that this Plan has been prepared in accordance with good engineering practices.



William A. Meisinger, P.E.
Koppers Industries, Inc.
Manager of Engineering
PENNA. # PE-038022-E

Date: 7/11/02

MANAGEMENT APPROVAL

This SPCC Plan will be implemented as herein described.



Amos S. Kameron
Plant Manager

William A. Meisinger
7.11.02

CONTINGENCY, SPCC
AND
POLLUTION PREVENTION PLAN

KOPPERS INDUSTRIES, INC.

NORTHWEST TERMINAL

PORTLAND, OR

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INC.

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1.3 Coordinated Emergency services	5
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SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

1.0 INTRODUCTION

This plan has been developed to: a) provide a basis for planning for and responding to potential spills, accidents, fires, or other contingencies and b) describe and implement practices to minimize and control pollutants in storm water discharges and ensure discharge permit compliance. It includes the requirements for the Contingency Plan as required by the Resources Conservation and Recovery Act (RCRA), the Spill Prevention, Control and Countermeasures (SPCC) Plan and Storm Water Pollution Prevention Plan (SWPPP) of the Clean Water Act, and the inventory reporting requirements of the Emergency Planning and Community Right-to Know Act (SARA Title III).

Questions concerning this plan may be directed to:

Amos S. Kamerer	Plant Manager	(503) 286-3681
T.J. Turner	General Foreman	(503) 286-3681

1.1 FACILITY LOCATION

The Northwest Terminal is located in Multnomah County in the city of Portland, OR. The terminal is located on approximately 6.4 acres of leased property. The property owner is the N W Natural, 220 NW Second Avenue, and Portland, OR, 97209. The portion of the property that Koppers Industries leases is addressed as 7540 NW Saint Helens Rd., Portland, OR, 97210-3663. The property is bounded by Saint Helens Road (Oregon State Highway 30) on the south, the N W Natural property extending to the shore of the Willamette River on the north. The N W Natural liquefied natural gas plant on the west. The south end of NW Front Ave. separates Koppers property from Wacker Siltronic Corporation, on the eastern boundary. On average, 6 to 8 people are employed at any one time, at the terminal (3 salaried people, 3 to 5 hourly people). Normal operating hours is from 4:00 p.m. on Sundays through 4:00 p.m. on Fridays. Generally, the plant is closed on the weekends.

1.2 OPERATION

Coal tar pitch is imported via bulk and/or liquid cargo vessels. This product is then stored at the terminal, prior to the distribution to our customers. Outbound shipments are made via tank truck or tank cars.

The solid coal tar pitch is imported via bulk cargo vessels through the Port of Longview, Washington and is then trucked from Longview to the terminal. The liquid coal tar pitch is imported via a bulk cargo vessel that is also equipped with heated storage tanks for hauling the pitch. These receipts arrive at the NW Natural Gasco dock on the Willamette River, where they are pumped from the vessel, through a pipeline that is about 2,400 feet long, to a storage tank at the terminal.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

All products and/or chemicals used or handled through the terminal are covered by material safety data sheets, which are on file. All employees have been trained on the usage of these materials and educated in the proper manner of reading and understanding of the material safety data sheets. This training is mandatory and is given annually.

1.3 COORDINATED EMERGENCY SERVICES

This plan is written to facilitate the quick and efficient coordination of emergency response actions between Koppers Industries, Inc. (Koppers) and any emergency response companies or agencies, which may be needed. Copies of this plan, and updates, are provided to the following:

Oregon, Department of Environmental Quality

Portland Fire Department

City of Portland, Bureau of Environmental Services

US Coast Guard

Pacific Terminal Services, Inc.

Plant Supervisors and Employee's

Instructions on how and when to obtain assistance for emergency situations including agency and contractor phone numbers are included in this plan.

1.4 SPCC AND SWPPP PLAN MAINTENANCE

This Plan must be kept up to date. Notify Koppers' Environmental Program Manager in the event of any changes made. Automatic review, evaluation and recertification by a Professional Engineer are required once every three years from the date of the latest certification. This Plan must also be amended whenever there is a change in design, construction, operation or maintenance which materially affects the facility's potential for discharge, and the amendment fully implemented as soon as possible and no later than within six months.

A copy of this Plan is to be maintained in the plant's main office and the plants control room.

Notify the Environmental Program manager if any amendment needs to be made to this Plan.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

2.0 INVENTORY OF OIL AND HAZARDOUS MATERIALS

2.1 Discussion

Various materials used at the Koppers facility are considered hazardous based on the toxicity or flammability of those materials. These include coal tar distillate, coal tar pitch, boiler water treatment chemicals, diesel, gasoline, heat transfer oil and lubricants for plant vehicles and equipment.

2.2 Business Information and Identification

The following information applies to the Koppers Industries Northwest Terminal:

Business Name:	Koppers Industries, Inc.
Business Phone:	(503) 286-3681
Business Fax:	(503) 285-2831
Owner:	Koppers Industries, Inc. 436 Seventh Ave. Pittsburgh, PA 15219
Operator:	Same as owner
SIC Code:	2865
EPA ID Number:	ORD 027734359
Site Address:	7540 NW Saint Helens Road Portland, OR 97210-3663
Mail Address:	Same as above
Type of Business:	Coal Tar Pitch Terminal

2.3 Emergency Contacts/ Emergency Coordinators

Name/Address

Amos S. Kamerer, Plant Manager
5912 Knightsbridge Drive
Portland, OR 97219

Home Phone [REDACTED] Cellular Phone (503) 705-8748

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

T.J. Turner, General Forman
17815 NE 152nd. Avenue
Bush Prairie, WA 98606
Home Phone [REDACTED] Cellular Phone (503) 705-9507

The above people can normally be reached during work hours at the business phone number, (503) 286-3681. Additionally, the night shift operator, when there is a night shift during the normal 5-day workweek, can be reached at (503) 286-3682 or cellular phone at (503) 250-0672.

The plant manager is the Primary Emergency Coordinator and should be contacted first. If he is not available, the others should be called, in the order listed, until someone is reached. The Primary Emergency Coordinator and alternates have complete authority to commit all necessary resources of the company in the event of an emergency.

During off shifts, the shift operator will notify the Emergency Coordinator (above) who will assume responsibility for implementation upon his arrival at the terminal. Also, on weekends and holidays when there is no shift work occurring, the terminal is patrolled by NW Natural's Pinkerton Security guards who make rounds through the terminal, hourly. The guards have been provided with a list of emergency phone numbers to call in case of a problem.

Phone numbers for Koppers Industries Corporate Contacts are provided on Page 14.

2.4 Hazardous Materials Inventory

The products used, or stored on the Koppers facility are listed by tank number in, Table 3.7. (Tank Listings Table) and is found on page 11. These tanks are also shown by number on the site map, found on page 26. All other buildings and structures are also shown on the site map.

3.0 SPILL PREVENTION, CONTROL, AND COUNTERMEASURES

3.1 Description

This section of the Plan provides information specific to the storage and handling of hazardous liquids; spill prevention and containment equipment, and countermeasures to be implemented to control the impact of a spill. The Tank Listings Table, Table 3.11, lists all the tanks at the Koppers terminal by number, along with contents and the tank capacities. The location of these can be found on the site map, on page 26.

3.2 Conformance with SPCC Standards and Guidelines

This facility meets the minimum requirements for diversionary structures and equipment to prevent discharged oil or hazardous substances from reaching navigable waters as required by 40 CFR 112.7© by providing secondary containment for all major tanks and process equipment.

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The Northwest terminal is in conformance with the applicable guidelines of 40 CFR 112.7 ©. Rainwater is collected, stored and then tested prior to discharge; all in accordance with our NPDES permit requirements. Tank installations are equipped with secondary containment and are regularly inspected by operators. Spill prevention details for equipment and processes are discussed more fully below.

3.3 Inspections and Security

The operator that is on duty, through out each shift checks all operational areas in the plant every 2 hours. Any problems or unusual circumstances which cannot be immediately resolved are reported to the Supervisor.

3.4 General Plant Spill Prevention

A hazardous material spill can occur any place, any time. All employees are prepared to respond immediately to control the situation and to notify management. Containing a spill to the smallest area possible is the first step.

Containment can quickly be constructed using available equipment and supplies; usually by placing dirt, sand, or available absorbent pads or absorbent containment booms around the lower side of a spill. If possible, a spill will be prevented from reaching the surface water drainage where it can spread more rapidly and have greater environmental and health impact.

Employees familiar with the equipment involved supervise loading operations. Buckets and/or pans are placed under hose connections to collect drips. The employees are trained to always be watchful that hoses and/or pipelines can be full of product and that they should take extra care when disconnecting hoses. Properly, and promptly cleanup any drips or spills. Supervisors must be notified of any spills that are outside of the containment areas. Collected materials will be returned to the processes or will be properly containerized for disposal.

3.5 Surface Drainage

The terminal property is at 37' above sea level and our out-fall for pumping off the collected storm water runoff is located on the very southeastern tip of the property, at approximately a 10 ft elevation above a creek that flows to the Willamette River.

In the Northwest terminal there are two run-off patterns for site drainage. The first is directly in front of the office and away from any pitch handling areas. This area would not be threatened by a spill. All other run-off areas from the plant feed into the tank farm and then into a concrete collection sump. Dual sump pumps (one operation and one standby) lift the run-off into the storm water storage tanks #1, #2, #3, #4, #5, and #6. When these tanks fill, they are sampled and the samples are taken to an Oregon Department of Environmental Quality approved laboratory for analysis in accordance with our NPDES permit limits. When the laboratory reports that the test results are within the permit limit parameters, the water is pumped to the out-fall referenced above.

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Equipment, including secondary spill containment, has been installed and procedures implemented to prevent oil or hazardous materials from leaving the plant. A spill is most likely to occur in the process area, where it can be contained.

Koppers has installed extensive paving at the coal tar distillate tank car heat exchanger unloading station, including paving between the rail tracks and the loading area for trucks. In addition, a below grade sealed concrete sump was installed as a catch basin. This catch basin has approximately 1500-gallon capacity. Also two-sump pumps have been installed. The first pump is automatically activated and pumps collected storm water into the tank farm storm water run-off, collection system for further handling.

The second pump is energized only when unloading coal tar distillate rail cars. This pump is on a float-activated switch and is piped to #39 tank, which is now designated as the emergency response tank at this location. Tank #39 is of sufficient capacity to hold the gallonage of a full tank car or 20,000 gallons. It is the duty of the loading/unloading employee to clear the catch basin of water, then open the valve to tank #39 and energize the automatic pump. In this way, should a distillate spill occur, all precautions are in place to contain the spill.

In the case of a spill in which hazardous materials or oils reach any of the drainage ditches, immediate action must be taken to contain the spill. Temporary earth dams should be constructed using plant equipment along the ditches, creating a series of impoundments to contain the flow. Sorbent booms may be used to remove containments from the water held behind the dams, is needed.

These dams can only hold back a limited amount of water, so emergency help should be contacted at the first sign that such a spill has occurred or may occur.

3.6 Tank Car Unloading

Tank cars are unloaded at the unloading station, where the process transfer pipelines are all above ground. The potential spill sources in this area include leaks from the process tanks, valves, pumps, and pipe systems. These leaks can best be prevented by proper valve and pump maintenance and equipment inspection during material transfers. Any leaks or drips must be cleaned up immediately.

As part of the operation procedures, drains and outlets on tank trucks and tank cars are checked for leakage before and after each loading and unloading operation. Operations personnel performing loading and unloading activities are instructed to inspect piping and pumps associated with these activities and to report spills or leakage.

The driver performs a visual inspection of the truck and trailer after each loading and if repairs are needed the truck is shopped for repairs.

The operating procedures included in this plan form the basis for the training of operations personnel in the prevention of coal tar distillate or coal tar pitch discharges. Job positions within the Northwest terminal require that new personnel, working in unfamiliar process areas will have a senior experienced employee to guide them. Personnel are also instructed in the operation and maintenance of equipment to prevent discharges.

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3.7 Vessel Unloading

As of December 1999 a project was completed which gives this facility the capability of unloading liquid coal tar pitch vessels at the GASCO dock, directly to a new storage tank T-200. The unloading is accomplished through a pipeline that runs from the GASCO dock on the Willamette River to tank T-200. The liquid coal tar pitch is unloaded at an elevated temperature of approximately 400 degrees F. To maintain the liquid pitch at these temperatures there is a companion line that is attached to the outside of the unloading line, with a heat transfer oil running through it to provide the maintenance heat that is required. There is containment on the GASCO dock, at the end of the pipeline, should a release occur. In an effort to minimize the impact of such a release, a leak detection monitoring system has been installed on the heat transfer oil lines, which will automatically shut off the flow of the heat transfer oil, to and from the dock. There is curbed containment at the on shore leak detection monitoring station; and also around the tank T-200 area, should a release occur at either location.

Containment boom is placed to surround the entire unloading/loading area prior to loading or unloading any vessel. In the event of a release of coal tar pitch or heat transfer fluid that reaches the Willamette River, the containment boom will already be in place and Pacific Terminal Services, Inc. (PTSI) personnel will notify the Qualified Individual from Koppers Industries, Inc. and the contracted Oil Spill Response Organization (OSRO) to remediate the discharge. Pacific Terminal Services, Inc. (PTSI) personnel are also equipped to deploy the containment boom in the unlikely event that the heat transfer oil ruptures and the discharge reaches the Willamette River.

The discharges of our liquid coal tar pitch vessels, at the GASCO dock, will be handled through a contract for the tankermen services, with Pacific Terminal Services, Inc. (PTSI). PTSI has amended their operating authority letter with the U. S. Coast Guard, their Oil Spill Contingency Plan, and their Operating Manual, to reflect the addition of the handling our liquid coal tar pitch.

3.8 Tank Farm

The concrete-wall-lined and earth-diked tank farm has a total containment capacity of approximately 2,900,000 gallons. Operators regularly walk and inspect this area, checking for corrosion, leaks or stains, or anything out of the ordinary. They also do any housekeeping, as necessary.

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Table 3.8
TANK LISTING TABLE
Koppers Industries, Northwest Plant

<u>Tank No.</u>	<u>Current use</u>	<u>Last contained</u>	<u>Capacity (000)</u>
1.	SW Surge	Crude Tar	660 M
2.	SW Surge	Crude Tar	1065 M
3.	SW Surge	Methyl Solvent	99 M
4.	SW Surge	Lt. Uncorrected Distillate	99 M
11.	SW Surge	Creosote	254 M
12.	SW Surge	Unknown	57 M
17.	SW Surge	Heavy Oil Distillate	20 M
18.	SW Surge	NSR Oil	20 M
19.	SW Surge	P & R Oil	20 M
20.	SW Surge	Creosote	317 M
23.	SW Surge	Lt. Uncorrected Distillate	20 M
33.	Heavy Oil	Heavy Oil Distillate	45 M
34.	SW Surge	NSR Oil.	45 M
39.	SW Surge	Creosote	20 M
53.	SW Surge	Creosote	10 M
65.	Liquid Pitch	Heavy Oil Distillate	761 M
66.	SW Surge	Creosote	191 M
67.	Heavy Oil	Heavy Oil Distillate	102 M
68.	Liquid Pitch	Liquid Pitch	248 M
74.	SW Surge	Creosote	20 M
99.	SW Surge	Creosote	209 M
101.	SW Surge	Creosote	759 M
102.	Fume Tank	Heavy Oil Distillate	9.3 M
200	Liquid Pitch	Liquid Pitch	2100 M
V201	SW Surge	Liquid Pitch	19 M
V207	SW Surge	Liquid Pitch	19 M
240	Heat Transfer Oil	Heat Transfer Oil	2 M
250	Heat Transfer Oil	Heat Transfer Oil	2 M
SW #1	Storm Water (SW)		45 M
SW #2	Storm Water (SW)		45 M
SW #3	Storm Water (SW)		45 M
SW #4	Storm Water (SW)		45 M
SW #5	Storm Water (SW)		20 M
SW #6	Storm Water (SW)		20 M
DSL-1	Diesel Storage	Diesel	4.5 M
DSL-2	Diesel Storage	Diesel	4.5 M

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3.9 Fuel and Lubrication Oil

All fuels and lubricating Oils are stored in the Oil Storage Shed, adjacent to track 5, between the Office and the Service Room buildings. Drums are stored upright and kept sealed and are on containment skids. Dispensing areas are kept clean. Oil drippage is contained. Any minor spills are contained and cleaned up immediately.

3.10 Hazardous Waste Storage Facilities

Hazardous waste is placed in drums when generated. Full drums are stored in the Oil Storage Shed. The drum or drums, are then disposed of through RCRA approved facilities, within less than 90 days.

4.0 EMERGENCY RESPONSE PROCEDURES

4.1 General

This section of the Plan describes the actions that are to be taken by Koppers personnel in response to any injury, accident, fire explosion, or unplanned release of any hazardous material to the air, soil, or water.

4.2 Emergency Coordination

As soon as an employee discovers an emergency situation, that person shall quickly estimate the extent of the problem, take safe and appropriate control action, and then notify the terminal management immediately. Per the list in Section 2.3 page 7, the operator, who is present, will assume the responsibilities of Emergency Coordinator (EC). Other personnel will respond as directed by the EC as needed.

The EC has Koppers Industries' authority to commit plant employees and contract labor and equipment, or to purchase supplies as needed.

Effective communication is vital in any emergency response. All terminal employees have portable two-way radios, which will be used for communication and coordination between the plant offices and yard areas. Phones may also be used between offices.

4.3 Immediate Response

As soon as an employee discovers an emergency situation, he should quickly determine the extent of the problem. If a simple action can be taken to control the situation, such as shutting a valve to stop the flow from a ruptured pipe and the action can be done safely, then the control action should be completed first. If there is no simple safe control action, the operator shall immediately notify the terminal management and any other personnel who may be endangered by the incident, by two-way radio.

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4.4 Response Procedures

4.4.1 Upon discovery or notification that an emergency exists, the EC shall:

- Determine the extent of the emergency.
- Implement plant evacuation, if needed, to prevent injury.
- Call for outside assistance as needed.
- Start immediate control actions.
- Implement cleanup or other responses.
- Notify local, state, and federal agencies as required.
- Notify Koppers Pittsburgh Office.
- Assure completion of cleanup.
- Provide for storage of cleanup material, including hazardous waste.
- Evaluate possible hazards to human health or environment.
- Make a final written incident report.
- Make other notifications as stated in Section 3.5, Emergency Notifications.

Many of these actions may occur concurrently.

4.4.2 Whenever there is a release, fire, or explosion, the emergency coordinator should immediately identify the character, exact source, the amount, and area affected by the incident. This may be done by observation, or review of facility records, or manifests and if necessary, by chemical analysis. Form 4.5.5, pages 17 – 20, should be used to document the information needed for notifications.

4.4.3 Concurrently, the Emergency Coordinator shall assess possible hazards to human health or the environment that may result from the release, fire, or explosion. This assessment shall consider both direct and indirect effects of the release, fire, or explosion (e.g., the effects of any hazardous or asphyxiating gases that are generated or the effects of any hazardous surface water run-off from water or chemical agents used to control fire and heat-induced explosions).

4.4.4 If the Emergency Coordinator determines that the facility has had a release, fire, or explosion which could threaten human health or the environment, outside of the facility, or if the released amount of hazardous or extremely hazardous material exceeds the Reportable Quantity (RQ). These findings shall be immediately reported (within 15 minutes) to the National Response Center as in Section 4.5, Emergency Notifications, all per the Koppers Industries Environmental Incident Communication and Reporting Policy (KII-E-002). A copy of this Policy and the Incident Reporting forms are found in Attachment A to this Plan.

Note: The reportable quantities for Koppers products are listed on pages number 5 & 6 of the Environmental Incident Communication and Reporting Policy, found in Attachment A of this Plan.

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If his assessment indicates that evacuation of local areas may be advisable, appropriate local authorities shall be notified immediately. The Emergency Coordinator shall be available to help appropriate officials decide whether local areas should be evacuated.

4.4.5 During an emergency, the Emergency Coordinator shall take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, recur, or spread to other hazardous wastes or materials at the plant. These measures could include turning water sprays onto tanks, stopping and isolating processes, shutting off power to areas collecting and containing released materials, or moving and isolating other containers.

4.4.6 If some or all operations are stopped in response to an emergency, the emergency coordinator shall monitor tanks, pipes, valves, and other process equipment for leaks, pressure build-up or ruptures wherever appropriate.

4.4.7 Immediately after an emergency, the Emergency Coordinator shall provide for treating, storing, or disposing of recovered materials or wastes, contaminated soil, surface water, or any other material that results from a release, fire or explosion.

4.4.8 Before resuming operations, the Emergency Coordinator shall:

- a. Insure that clean up is complete to the point that operations will not interfere or create further potential for hazardous waste release.
- b. Insure that all emergency equipment is cleaned and fit for use.
- c. If hazardous wastes or a hazardous waste unit has been involved, then advise the Dept. of Environmental Quality and EPA region X that Steps a and b above are complete.

4.4.9 If hazardous wastes or the hazardous waste unit has been involved, the Emergency Coordinator shall submit a written report as requested by the Dept. of Environmental Quality. A copy of the completed report shall be maintained in the Operating Record.

4.5 Emergency Notifications

4.5.1 The Emergency Coordinator shall ensure that the necessary notifications are made. Form 4.5.5 entitled, "Emergency and/or Hazardous Materials Incident Report" is to be used. Page one is organized to provide all of the information needed for the initial verbal notification of the National Response Center of other agencies. As soon as a spill or other incident is discovered, the supervisor/manager who will do the reporting should begin filling in the information.

Page 2 should be used as a log of notification made. Get the position and name of the person who accepts the phone notifications. Also, if an incident number is assigned, as by the National

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Response Center, that number should be recorded. As more is learned about the incident, the report should be updated. Updates can be recorded on page 2 as well.

Pages 1,2, and 3, completed either by hand or typed, can be used for the required written notification of agencies. These should be sent with cover letters showing everyone who will get copies. Copies must be kept in the plant's Operating Record.

Finally, page 4 should be used for Koppers Industries internal reporting of additional related information. KII has an obligation to report all spills, which could possibly, impact over-all cleanup work. The complete report, Pages 1,2,3, and 4 should be sent to the Environmental Program Manager including original photographs. He will provide the required notification to Beazer East, Inc.

4.5.2 What spills or incidents must be reported and to whom?

The following is a summary. Note that more than one category may apply.

If outside help is needed. IMMEDIATELY:

Call fire and/or other appropriate emergency agencies describe incident and needed assistance, such as fire suppression, medical aid, evacuation and/or crowd control.

If a release or threatened release of hazardous material: OR

If a health threat or release outside of facility: OR

If the release results in or has the potential to cause an oil sheen on or discoloration of runoff water:

Call 911 for immediate help. If the release involved a Reportable Quantity (RQ) then call both the Oregon Emergency Management Office at 1-800-424-8802 and the National Response Center at 1-800-424-8802.

Such releases that cannot be recovered must also be included in the SARA Title III annual reports.

If the release results in or has the potential to reach the City Storm or Sanitary Sewer drains, IMMEDIATELY:

Call the Duty Officer at 823-7180

If hazardous waste or a hazardous waste unit is involved OR if the plant contingency plan is implemented: IMMEDIATELY AND NOT LATER THAN 24 HOURS:

Call the Oregon Emergency Management Office at 1-800-452-0311

AND, Within 15 days

Submit a written report of the incident to them at:

595 Cottage Street. N.E.
Salem, Oregon 97310

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If the release impacts the waters of the United States, a written report must also be sent to the EPA, as follows: Environmental Protection Agency

Director, Region X
1200 Sixth Avenue
Seattle, Wash. 98101

If injuries result in 3 or more people being hospitalized or 1 or more person killed, IMMEDIATELY:

Call the US Occupational Safety and Health Administration or authorized state OSHA agency **WITHIN 8 HOURS!**

In all cases, as soon as the emergency situation allows, Koppers management in Pittsburgh shall be called. Follow the guidance contained in "Internal Emergency Notification Procedures" for Koppers Industries, Inc. At least one of the following contacts in Pittsburgh shall be notified:

<u>Name, Position</u>	<u>Work Phone</u>	<u>Home Phone</u>	<u>Cellular Phone</u>
Traci Self, Mgr. Environmental Compliance	412/227-2883		412/913-9358
Mike Juba, Mgr. Health & Safety	412/227-2882		412/897-8407
Randy Collins, Mgr. Loss Control	412/227-2456		412/551-4554

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Form 4.5.3

**EMERGENCY AND/OR HAZARDOUS MATERIALS
INCIDENT REPORT**

OWNER/OPERATOR: Koppers Industries, Inc.
Plant Name: Northwest Terminal
Street Address: 7540 N.W. Saint Helens Road.
City/State/Zip: Portland, Or 97210-3663
Phone: (503) 286-3681
EPA ID#: ORD 0267734359

FACILITY: Same as above

DATE OF INCIDENT: _____ TIME OF INCIDENT: _____

TYPE OF INCIDENT: Fire, Explosion, Hazardous Material Spill,
(Circle one) Hazardous Waste Spill, Injury Accident

Other: _____

MATERIAL INVOLVED:

<u>Name</u>	<u>Quantity</u>	<u>Media (soil, water, etc.)</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

EXTENT OF INJURIES, IF ANY:

DISPOSITION OF RECOVERED MATERIAL:

<u>Material</u>	<u>Quantity</u>	<u>How Disposed or Stored</u>
-----------------	-----------------	-------------------------------

_____	_____	_____
_____	_____	_____

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Page 2

NOTIFICATION LOG:

<u>Agency</u>	<u>Phone No.</u>	<u>Name of Person</u>	<u>Date/Time Notified</u>
Portland Fire Dept.	911	_____	_____
Oregon Emergency Management	1-800-452-0311	_____	_____
National Response Center	1-800-424-8802	_____	_____
Oregon OSHA	503-229-5910	_____	_____
City Duty Officer	503-823-7180	_____	_____
(For Storm, Sewer, and Drain Contamination, only)			
Northwest Natural	503-224-3532	_____	_____
Wacker Siltronics	503-243-2020	_____	_____
Security for FAB #1	Ext. 7420	_____	_____
Security for FAB #2	Ext. 4300	_____	_____
Fuel & Marine Marketing, LLC	503-286-5321	_____	_____
Manager of Environmental Compliance, Traci Self			
Office	412-227-2883		
Home	412-247-5515		
Cellular	412-401-7334		

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Page 3

ADDITIONAL DESCRIPTION OF INCIDENT AND ACTIONS TAKEN (Attach page if needed):

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

REPORT BY (Name): _____ DATE _____

REPORT REVISED: _____ DATE _____

REPORT REVISED: _____ DATE _____

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SUPPLEMENTAL INFORMATION REPORT

(This part of the report is intended for KII internal use only.)

CLEARLY DESCRIBE HOW INCIDENT OCCURRED:

WHAT ACTS OR CONDITIONS MOST DIRECTLY CAUSED THE INCIDENT:

DESCRIBE ANY RESIDUAL CONTAMINATION OR IMPACT:

ATTACH PHOTOGRAPHS WHICH SHOW INCIDENT AREA, BEFORE AND AFTER RESPONSE ACTIONS. MARK DATE ON PHOTOS. ATTACH ADDITIONAL SHEETS AS NEEDED TO DESCRIBE INCIDENT AND THE RESPONSE ACTIONS TAKEN.

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4.6 Available Equipment

The following equipment is available at the plant:

<u>EQUIPMENT</u>	<u>STORAGE LOCATION</u>	<u>CAPABILITIES</u>
Front-end loader	Pitch storage building	Placement of materials and equipment, construct containments, control and contain spillage area.
1 Pickup Truck	Office parking lot	Transport materials and equipment
Oil absorbent Pads and Booms	Various Emergency-Response Cabinets	Absorb and contain spilled liquids,
Lift Truck	Shop area	Transport and placement of materials and equipment
Portable Pump	Shop area	Pump liquids back into containments.
Sand	Along the wall, West of the boiler house	Containment dam building material and absorbent
Hand tools	Shop area	Pick-up contaminated soil and material and clean spillage area.
Drums	North-side pitch-warehouse	To hold contaminated soil and material from clean-up actions

The above equipment can be effectively used to control and clean a spill of oil, hazardous material, or hazardous waste. Trucks and tractors can be used to transport and place soil for containment dams, absorbing spilled liquid, and contaminated soil from cleanup actions. Pumps can be used to pump spilled liquid back into containments. After response action is complete, equipment should be placed on the drip pad or vehicle wash pad and be decontaminated with the steam cleaner prior to being released from the response.

4.7 Emergency Response Contract Service

Koppers has a Corporate Agreement with IT Corporation to provide for any environmental services in the event of an emergency. IT Corporation can be reached 24 hours per day at # 1-800-537-9540. Ask for the "EMERGENCY RESPONSE MANAGER". IT Corporation is to provide notification within 30 minutes after receipt of the emergency call, of its acceptance of the work and their expected response time.

4.8 Fire and Disaster Response Plans

4.8.1 This section of the Plan provides additional information on specific response actions to be taken in the event of a major disaster, emergency, or other disruption. Such an event could include:

- Fire or explosion
- Earthquake
- Strike or civil strife

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4.8.2 Fire disasters can occur anywhere in the plant environment, so all employees should be knowledgeable as to the proper method for handling all types of fires, and where the largest potential risk areas are located. Communications with and between plant employees is vital to a safe and effective response.

4.8.3 Designated Response Stations

In the case of a disaster or other major incident, employees shall secure their work areas and processes and then report to the Plant Manager and/or General Foreman, at the main office, if they are not directly involved in Emergency Response.

Plant Office Employees stay at the office. Coordinate outside calls, inquiries, and media contacts.

4.8.4 Evacuation

The need for evacuation shall be signaled by a message over the radio to all employees. All employees shall follow the safest path to meet at the closest location outside the property fence. If the main entrance is **not** affected, the employees should meet at Wacker Siltronics guard shack on the entrance road. If the main entrance is affected, then the closed safe location outside the property fence will have to be determined; generally, that would be towards N W Naturals LNG plant or towards the river behind the pencil pitch storage buildings.

Supervisors shall account for all of their employees, notify the EC when they are “all clear” and relay further instructions. An alternate location will be designated and announced at the time of the incident if the Main office is not a safe check-in location.

4.8.5 Fire Suppression Systems

Fire Hose and Hose Reels are located at strategic points around the terminal. Employees must be familiar with ones within their work areas.

Fire Extinguishers are located throughout the plant and on rolling stock. CO-2 and ABC Dry Chemical types are used exclusively.

Dry Fire Water Suppression piping system is located at the ship unloading dock.

4.8.6 Civil Strife, Strike

Emergencies resulting from or shutdowns as a result of, civil strife or strike situations require the control of people entering the plant, both authorized and unauthorized. Local law enforcement agencies can be helpful in achieving this goal, but in-plant security is management’s immediate concern. When a total shutdown is planned, and security measures are to be implemented, the following should be observed.

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Boiler

- Secure door locks.
- Follow established shutdown procedure.
- Assure that all steam line drains are open

Hazardous Waste Storage Area

- Properly store all hazardous waste drums in the Boiler House.
- Lock doors.

Major Operations

- Secure electrical panels.
- Turn off air compressors and shut valves.
- Store and secure portable tools, cords, hoses, etc.
- Clean up area for safety and fire protection.

Rolling Stock

- Park centrally in area in front of shop.

Gates

- Keep locked at all times.
- Put on new locks to prevent unauthorized entry.

Security Patrols

- Security patrols will be made 24 hours per day.
- Communication will be maintained at all times between the patrols and the main office by radio.

Lighting

- The plant has general yard lighting system consisting of flood lights, streetlights and incandescent lighting. Outdoor lighting in front of the main office is controlled by photocells.

4.9 Medical Emergency Plans

Emergency and first aid supplies are maintained at the following work locations:

Main Office (Main supply Center)
Control Room (Intermediate supply location)
Maintenance Shop (Intermediate supply location)

First aid supplies are intended for use on minor cuts, abrasions, and burns requiring simple care such as band-aids, disinfectant, or ointment. Supplies are also available for the immediate treatment of severe injuries while awaiting professional medical care, such as gauze pads, bandages, and splints.

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Any First aid applied at the plant by plant employee's, is in no way intended to replace any needed medical attention, but only to help prior to receiving professional treatment.

If serious Injury occurs, assure that an ambulance is called immediately.

5.0 STORM WATER POLLUTION PREVENTION PLAN

5.1 General

This section of the Plan describes the pollution prevention procedures and facilities for this plant to minimize the impact of storm water runoff to the surrounding environment. This section specifically addresses the requirements of our Storm Water Industrial NPDES Permit.

5.2 Pollution Prevention Objectives and Process

All boiler blowdown water and storm water runoff is collected in our tank farm and is handled under the terms and conditions of our NPDES permit. No discharges are made unless they meet these terms and conditions.

6.0 TRAINING

All plant employees shall receive training on the content of this plan. Supervisors will each receive a copy and become thoroughly familiar with it through training, discussion, and self-study. Supervisors will train their employees in the overall plan and in the specific needs of their work areas.

Training will, at a minimum, include programs to ensure that facility personnel understand basic procedures for pollution prevention and good housekeeping and are able to respond effectively to emergencies by familiarizing them with emergency procedures, emergency equipment, and emergency systems, including, as applicable to each employee's job function:

- Procedures for using, inspection, repairing, and replacing facility emergency and monitoring equipment;
- Communications and alarm systems;
- Response to fires or explosions;
- Response to ground water or surface water contamination
- Shutdown of operations;
- Methods for the safe handling of hazardous materials;
- Procedures for coordination with local emergency response organizations;

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- Use and location of medical supplies;
- Use of emergency response equipment and supplies appropriate to work areas;
- Emergency response procedures and plans contained within this SPCC and Contingency Plan.

Refresher training will be provided at least annually. New employees will not work in unsupervised positions until they have completed all training required for those positions. Supervisors will provide training to their employees and management will assure that supervisors are properly trained.

Employees with specific additional job related training needs will also be given that training, such as hazardous waste handling training as required by RCRA and State regulations, hazardous waste operating procedures for fuel additive to the boiler, storm water pollution prevention, and waste water operations.

This training may be coordinated and take place concurrent with Hazard Communication and RCRA training. Safety meetings and annual updates.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INC.

Record of Revisions

<u>Date</u>	<u>Reasons</u>
October 22, 2004	Updated the tank list after cleaning project, updated equipment capabilities and updated other minor needs.

Plan Review Documentation form

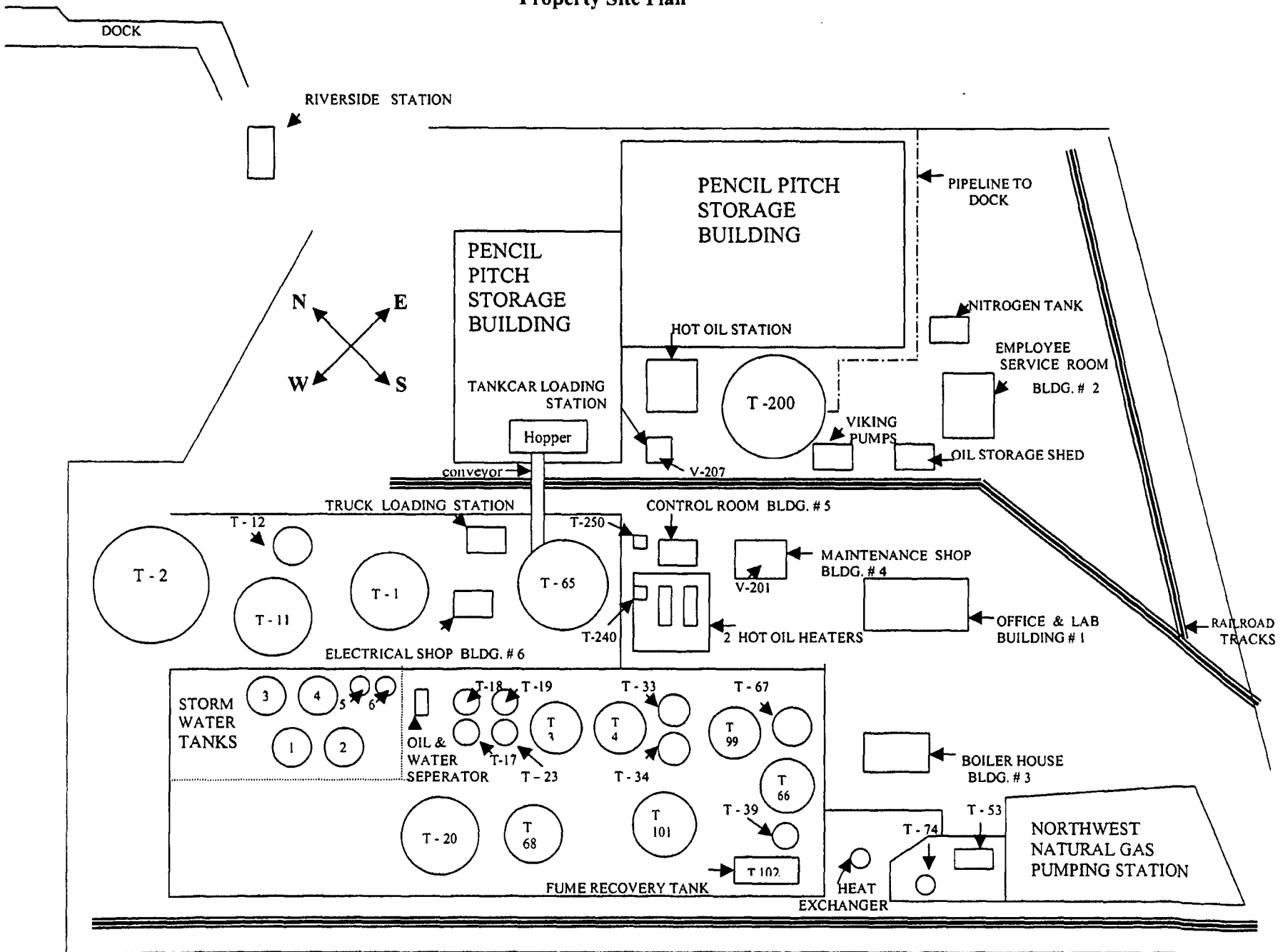
As required per CFR 112.5(b), I have reviewed this SPCC Plan and to the best of my knowledge, no changes or discharge incidents have occurred since the last review or certification which require amendment and recertification of this SPCC, as it exists, remains current and accurate.

Reviewer: T. J. Turner, General Foreman


Signature of Reviewer

10-22-04
Date

Property Site Plan



SUBJECT: Environmental Incident Communication
and Reporting Policy**SCOPE:** All US Plants

ATTACHMENT A**PURPOSE:**

The purpose of this policy is to ensure environmental incidents (as described in the "Policy" section below) are:

- acted upon, reported, and documented in accordance with applicable regulations, and
- communicated to appropriate agencies and corporate management in a timely manner.

BACKGROUND:

Environmental regulations require that certain significant incidents, such as oil spills, chemical spills, and unpermitted discharges of hazardous material to the environment be reported to specified agencies. Failure to report such incidents to agencies in a timely manner can subject Koppers or its employees to substantial civil penalties, or if the failure to report is willful or negligent, to both civil and criminal penalties. It is important, therefore, that Koppers employees be aware of incident reporting requirements and that responsibilities and procedures for reporting incidents be clearly established.

Table 1 contains a list of reportable quantities (RQs) for Koppers products. Table 2 contains a list of RQs for commonly used materials. These are provided for reference in the event of a spill and to assist in determining if reporting to an agency is required. Plants will develop lists of the RQs for products on that facility which are not listed herein.

In addition, Koppers management has an interest in understanding the compliance status of its facilities and ensuring proper corrective action is taken in the event of non-compliance. Therefore, this policy covers a wide range of environmental incidents, as described in the "Policy" section.

RESPONSIBILITIES:

The plant manager will:

1. Ensure the contingency/SPCC Plans for the facility are kept updated (minimum annually), that facility personnel are adequately trained and knowledgeable of the plan, and in the event of an incident, implement the plan.
2. Maintain a list of the RQs for all products on that facility not listed in this policy.
3. Ensure all environmental incidents are acted upon according to this policy, are communicated in a timely manner to corporate/division staff, to emergency response

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- personnel and appropriate reporting agencies (if required), and ensure follow-up reporting is completed in accordance with this policy.
4. Investigate environmental incidents, determine the root cause of the incident, and implement corrective action to prevent reoccurrence of a similar incident.
 5. Ensure all spills, leaks and releases are recorded as follows:
 - Spills above the RQ: Complete KII-FORM-E-002 and forward it to the corporate environmental manager and division operations manager.
 - Spills below the RQ: Maintain a log, as described in the “POLICY” section below.

The plant manager may delegate the duties listed above, but retains responsibility for their proper execution.

DEFINITIONS:

The following environmental incidents are typical of those that *must be reported*.

1. **Reportable Releases:** A spill, leak, or un-permitted release:

- Of oil, a refined petroleum product, or a hazardous substance or material of any quantity that enters a navigable waterway or a drainage pathway leading to a navigable waterway, could migrate to an adjacent property or waterway, or causes a film, sheen or discoloration;
- Of a hazardous substance or material in the form of a vapor, gas, or emission to the ambient air, or a solid or liquid to the ground surface in a quantity equal to or greater than the CERCLA Reportable Quantity (RQ) – (see attached tables for RQs of common materials managed at Koppers sites);
- Of Koppers products or materials during transport from a Koppers facility to a customer; and
- In Pennsylvania and Florida, of a hazardous substance or material of greater than 25 gallons to a containment area, structure or facility around an aboveground tank, or of greater than 5 gallons to a synthetic surface (asphalt or concrete), which prevents migration of the material to the environment.

2. **Other Environmental Incidents:**

- Discharge of a material in excess of the numerical limit allowed under a facility permit issued under the Clean Air Act, Clean Water Act, permit by rule, or other federal or state laws. An example is where a permitted concentration limit or mass loading limit is exceeded in a water discharge.

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- Occurrences where specified conditions were not maintained as defined in a permit. An example is where a permit specified minimal pressure differential across a bag house filter is not maintained.
- Any malfunction of a pollution control device or monitor.
- Receipt of a notice of violation (NOV) or inspection report indicating compliance deficiencies.
- Any complaint regarding an environmental issue (odor, noise, etc.).

The above lists, although illustrative, are not exhaustive. Any incident that causes or could cause the release of hazardous materials or non-compliance with regulations will be reported in a timely manner to the corporate environmental manager, division operations manager, and regulatory authorities, as required.

POLICY:

1. Action in the event of an environmental incident: The plant will:

- a. Take action to contain the spill, leak or un-permitted release and minimize risk of injury or property damage. This may include calling an emergency response contractor.
- b. Report as follows:

(1) Releases in excess of the RQ:

- (a) Immediately to the National Response Center (NRC) and appropriate state and local authorities (as defined in the Contingency/SPCC Plan).
 - Contact a corporate environmental manager before (if possible) or as soon as possible after making the telephone report to the proper authorities.
 - For Koppers products in transportation, upon becoming aware of an incident, report the incident telephonically to the NRC and other required authorities (if a report has not already been made).
- (b) As soon as possible(via electronic mail or telephone) to:
 - Chief Executive Officer
 - Vice-President for Safety, Health, and Environmental Affairs
 - Division General Manager
 - Division operations manager
 - Corporate Environmental Manager

(2) All other incidents:

- (a) To regulatory authorities, as required by permit or regulation
- (b) As soon as possible to:

- Corporate environmental manager

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- Division operations manager
- c. Conduct a thorough investigation to determine the root cause of the incident.
- d. Take corrective action to ensure the risk of reoccurrence of the incident is minimized.
Include a summary of the incident and its root cause in the monthly report for the facility.
- e. Develop written reports:

(1) *For spills in excess of the RQ:*

- Complete an internal incident report (KII-FORM-E-002), and transmit it to the corporate environmental manager and division operations manager within 48 hours following the incident and file a copy at the plant.
- Update the SPCC/Contingency Plan to include notations describing the incident.
- Prepare a follow-up letter, summarizing the incident and response actions taken, for distribution to the proper agencies within 48 hours following the incident. *This report will be reviewed by the corporate environmental manager prior to transmittal to any agency.*

(2) *For spills not in excess of the RQ:*

Maintain and update a log for recording information relating to incidents, spills, leaks and releases of material below the applicable RQ. Record the following information:

- the date of occurrence
- the root cause
- how the material was cleaned up
- actions taken to prevent reoccurrence

2. Press statements: Prior to release, all press statements regarding an environmental incident will be reviewed and approved by the division operations manager and the corporate environmental manager.

DISTRIBUTION:

All SH&E Manual Holders

Table 1
Reportable Quantities for Koppers Products

Commodity ⁽¹⁾	302 RQ (lbs) ⁽²⁾	RQ (lbs)	RQ (gal)	WT %	Specific Gravity g/cc ⁽³⁾	Lb/gal (3)	Limiting constituent ⁽⁴⁾
Crude Coke Oven Tar	1	110	13	0.905	1.05	8.747	Benzo(a)pyrene
Refined Chemical Oil	100	167	19	59.95	1.04	8.663	Naphthalene
Creosote (P1/P13)	1	1	0.1	100	1.06	8.830	Creosote
Creosote Solution (P2)	1	1	0.1	100	1.06	8.830	Creosote
Coal Tar Pitch – Liquid	1	74	7	1.35	1.3	10.829	Benzo(a)pyrene
Coal Tar Pitch – Pencil	1	74	—	1.35	1.3	10.829	Benzo(a)pyrene
Carbon Black Base No. 1	1	161	17	0.62	1.13	9.413	Benzo(a)pyrene
Pavement Sealer Base	1	104	11	0.96	1.1	9.163	Benzo(a)pyrene
Modified Pavement Sealer Base	1	99	12	1.01	1.01	8.413	Benzo(a)pyrene
Sodium Cresylate	100	244	24	41	1.2	9.996	Cresols
Solvent Grade Coal Tar Naphtha	10	1000	124	1	0.97	8.080	Benzene
Unwashed Coal Tar Naphtha	10	1000	121	1	0.99	8.247	Benzene
Crude Methylnaphthalene Fraction	100	1000	119	10	1.01	8.413	Acenaphthene
Methylnaphthalene Fraction #2	100	714	83	14	1.03	8.580	Acenaphthene
Naphthalene Still Residue	1	263	29	0.38	1.08	8.996	Benzo(a)pyrene
78° Crude Naphthalene	100	100	12	100	1.015	8.455	Naphthalene
80° Refined Naphthalene	100	100	12	100	1.015	8.455	Naphthalene
Topped Tar	1	100	11	1	1.1	9.163	Benzo(a)pyrene
Methylnaphthalene Fraction	100	1000	119	10	1.01	8.413	Acenaphthene
Crude Crystal Free Neutral Oil	10	500	60	2	1	8.330	Benzene
Crude LBTB Low Boiling Crude Bases	10	1250	150	0.8	1	8.330	Benzene
Bottom of Column Oil (BOC)	100	714	83	14	1.03	8.580	Acenaphthene
Pitch Low Volatility 160	1	128	12	0.78	1.32	10.996	Benzo(a)pyrene
Pitch Low Volatility 180	1	233	21	0.43	1.32	10.996	Benzo(a)pyrene
Pitch Low Volatility 200	1	500	45	0.2	1.32	10.996	Benzo(a)pyrene
Pitch Low Volatility 225	1	1111	101	0.09	1.32	10.996	Benzo(a)pyrene
Phthalic Anhydride – Flake	5000	5051	496	99	1.22	10.177	PAA
Phthalic Anhydride – Molten	5000	5000	491	100	1.53	10.177	PAA

- (1) Any amount of these substances entering water within a stream or river, or migrating onto an adjacent property is reportable. Substances entering a storm water ditch and having the potential to reach a stream or river may be reportable. A Corporate Environmental Manager should be contacted for guidance when these circumstances exist.
- (2) Amounts were taken from 40 CFR Table 302.4 for the Limiting Constituent noted.
- (3) Values are for the applicable Commodity.
- (4) The hazardous constituent (of all constituents contained in the listed commodity) from which the RQ for the commodity is defined.

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Table 2
Reportable Quantities (RQ's) for Common Materials

Material ⁽¹⁾	RQ (lbs)	RQ (gals)	Comments
Wood Treating Liquids:			
Pentachlorophenol Solution		4 or 10 ⁽²⁾	
CCA Solution		0.2 or 1.6 ⁽³⁾	
Coal Tar Creosote / Creosote Solution		0.125	
Oil and Petroleum By-Product Liquids:			
Gasoline, Diesel Fuel, Lubricating and Hydraulic Oil, Other Oil		State and Local Regulations ⁽⁴⁾	Call Corporate Environmental Manager
Hazardous Waste:			
CCA Waste (FO35)	1 ⁽⁵⁾	0.2 ⁽⁵⁾	
Creosote Waste (FO34)	1 ⁽⁵⁾	0.1 ⁽⁵⁾	
Pentachlorophenol Waste (FO32)	1 ⁽⁵⁾	0.1 ⁽⁵⁾	If material contains Creosote, RQ for Creosote Waste applies.
Hazardous Waste (Toxicity Characteristic or Listed RCRA Hazardous)	Based on the RQ for the hazardous constituent, or if material contains multiple hazardous constituents, the constituent with the lowest RQ applies ⁽⁶⁾		May include, among other wastes, boiler and process water treatment chemical wastes, see MSDS information
Hazardous Waste (Ignitable, Corrosive, Reactive Characteristics)	100	10	May include, among other wastes, boiler and process water treatment chemical wastes, see MSDS information

- (1) Any amount of these substances entering water within a stream or river, or migrating onto an adjacent property is reportable. Substances entering a storm water ditch and having the potential to reach a stream or river may be reportable. A Corporate Environmental Manager should be contacted for guidance when these circumstances exist.
- (2) Use the lower RQ amount for concentrated unmixed (40%) pentachlorophenol in diesel oil solution; the higher RQ amount should be used for any mixed (10% or less) pentachlorophenol in diesel oil solution. Applicable state and local regulations for diesel oil should be evaluated.
- (3) Use the lower RQ amount for concentrated unmixed 50% or 60% CCA solutions; the higher RQ amount should be used for mixed (6% or less) CCA solutions.
- (4) If the material has not entered a drainage way, or under the given circumstances does not have the potential to migrate to an adjacent property or waterway, the Corporate Environmental Manager should be contacted immediately to assist in determining if the release is reportable to applicable agencies based on state and local regulations that may apply. The SPCC Plan should also be reviewed for additional information relating to a release of these materials. See Note (1) above.
- (5) This quantity applies, regardless of concentration.
- (6) See 40 CFR Table 302.4 for the constituent(s) for which the characteristic of Toxicity is based. The RQ applies to the waste itself, not merely the toxic contaminant contained in the waste. The Environmental Manager at CSG should be contacted for guidance.

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FACILITY: _____

DATE OF INCIDENT: _____

TIME OF INCIDENT: _____

INCIDENT**Note: IMMEDIATELY MAKE NOTIFICATIONS TO NRC, STATE, LOCAL & KII (AS APPLICABLE)****Type of incident (check all that apply):**

<input type="checkbox"/>	Spill, leak or un-permitted release of oil or hazardous material to the air, ground, or waterway	<input type="checkbox"/>	Complaints of any kind (e.g., odor, noise, etc.)
<input type="checkbox"/>	Permit limit exceedance or circumstance where specified conditions in a permit were not maintained	<input type="checkbox"/>	Other (Explain) - Malfunction of a pollution control device or monitor, etc.
<input type="checkbox"/>	Spill or leak of a liquid or solid that is contained on process pad or by other secondary containment		

Location of Incident:**Description of Incident:****Materials involved:**

Material/Constituent	Quantity Released	RQ	Exceeded RQ? (Y/N)	Media Affected (soil, water, air)

Notification Log:

Agency	Phone No.	Date	Time	Name of Contact	Notes

Assessment of actual or potential hazards to human health or the environment:

INVESTIGATION:Acts or conditions causing incident (root cause):

CORRECTIVE ACTIONContainment and cleanup actions:

Disposition of recovered material:

Material	Quantity	Disposal or Storage Location

Corrective action (describe what has been done or will be done to prevent recurrence):

ADDITIONAL INFORMATION/RECOMMENDATIONS:**AGENCY CONTACT DUE TO THIS INCIDENT (Agency Inspector, Agency issuing NOV):**Include date, time, name, title, agency and summary of inspection/visit:

Indicate whether the plant's SPCC Plan was reviewed and updated as required with information relating to this incident.

☐

Yes

☐

No

If no, explain:

Attach photographs (if available) which show the incident area before, and after response action. Mark date and time of each photo.

Photos _____

Report completed by:

Name: _____

Title: _____

Date: _____

Attach continuation sheets as necessary

PLEASE FAX OR SEND THIS FORM TO THE KOPPERS ENVIRONMENTAL DEPARTMENT

CONTINGENCY, SPCC
AND
POLLUTION PREVENTION PLAN

KOPPERS INDUSTRIES, INC.

NORTHWEST TERMINAL

PORTLAND, OR

Original
To be kept in
Amos' File

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

**CONTINGENCY PLAN,
SPILL PREVENTION, CONTROL,
AND COUNTERMEASURES (SPCC) PLAN
AND
STORM WATER POLLUTION PREVENTION PLAN
KOPPERS INDUSTRIES, INC.
NORTHWEST TERMINAL
7540 NW Saint Helens Rd.
PORTLAND, OR 97210-3663
FEBRUARY 24, 2000**

CERTIFICATION

I here by certify that I have inspected the subject facility, and being familiar with the provisions of 40 CFR 112 for SPCC requirements and 40 CFR 122 for Storm Water Pollution Prevention requirements, attest that this Plan has been prepared in accordance with good engineering practices.



William A. Meisinger, P.E.
Manager of Engineering
PENNA. # PE-038022-E

Date: 2-24-00

MANAGEMENT APPROVAL

This SPCC Plan will be implemented as herein described.



Amos S. Kameron
Plant Manager


William A. Meisinger
2-24-00

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

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SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

1.0 INTRODUCTION

This plan has been developed to; a) provide a basis for planning for and responding to potential spills, accidents, fires, or other contingencies and b) describe and implement practices to minimize and control pollutants in storm water discharges and ensure discharge permit compliance. It includes the requirements for the Contingency Plan as required by the Resources Conservation and Recovery Act (RCRA), the Spill Prevention, Control and Countermeasures (SPCC) Plan and Storm Water Pollution Prevention Plan (SWPPP) of the Clean Water Act, and the inventory reporting requirements of the Emergency Planning and Community Right-to Know Act (SARA Title III).

Questions concerning this plan may be directed to:

Amos S. Kamerer	Plant Manager	(503) 286-3681
T.J. Turner	General Foreman	(503) 286-3681

1.1 FACILITY LOCATION

The Northwest Terminal is located in Multnomah County in the city of Portland, OR. The terminal is located on approximately 6.4 acres of leased property. The property owner is the N W Natural, 220 NW 2nd Ave., Portland, OR, 97209. The portion of the property that Koppers Industries leases is addressed as 7540 NW Saint Helens Rd., Portland, OR, 97210. The property is bounded by Saint Helens Road (Oregon State Highway 30) on the south, the N W Natural property extending to the shore of the Willamette River on the north. The N W Natural liquefied natural gas plant on the west. The south end of NW Front Ave. separates Koppers property from Wacker Siltronic Corporation, on the eastern boundary. 11 people are employed at the terminal (4 salaried people, 7 hourly people). Normal operating hours are from 4:00 p.m. on Sundays through 4:00 p.m. on Fridays. Generally, the plant is closed on the weekends.

1.2 OPERATION

Coal tar pitch is imported via bulk and/or liquid cargo vessels. This product is then stored at the terminal, prior to the distribution to our customers. Outbound shipments are made via tank truck or tank cars.

All products and/or chemicals used or handled through the terminal are covered by material safety data sheets, which are on file. All employees have been trained on the usage of these materials and educated in the proper manner of reading and understanding of the material safety data sheets. This training is mandatory and retraining is given annually.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

1.3 COORDINATED EMERGENCY SERVICES

This plan is written to facilitate the quick and efficient coordination of emergency response actions between Koppers Industries, Inc. (Koppers) and any emergency response companies or agencies, which may be needed. Copies of this plan, and updates, are provide to the following:

Oregon, Department of Environmental Quality

Portland Fire Department

City of Portland, Bureau of Environmental Services

US Coast Guard

Plant Supervisors and Employee's

Instructions on how and when to obtain assistance for emergency situations including agency and contractor phone numbers are included in this plan.

1.4 SPCC AND SWPPP PLAN MAINTENANCE

This Plan must be kept up to date. Notify Koppers' Environmental Program Manager in the event of any changes made. Automatic review, evaluation and recertification by a Professional Engineer is required once every three years from the date of the latest certification. This Plan must also be amended whenever there is a change in design, construction, operation or maintenance which materially affects the facility's potential for discharge, and the amendment fully implemented as soon as possible and no later than within six months.

A copy of this Plan is to be maintained in the plant's main office and the plants control room.

Notify the Environmental Program manager if any amendment needs to be made to this Plan.

2.0 INVENTORY OF OIL AND HAZARDOUS MATERIALS

2.1 Discussion

Various materials used at the Koppers facility are considered hazardous based on the toxicity or flammability of those materials. These include coal tar distillate, coal tar pitch, boiler water treatment chemicals, fuel, heat transfer oil and lubricants for plant vehicles and equipment.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

2.2 Business Information and Identification

The following information applies to the Koppers Industries Northwest Terminal:

Business Name:	Koppers Industries, Inc.
Business Phone:	(503) 286-3681
Business Fax:	(503) 285-2831
Owner:	Koppers Industries, Inc. 436 Seventh Ave. Pittsburgh, PA 15219
Operator:	Same as owner
SIC Code:	2865
EPA ID Number:	ORD 027734359
Site Address:	7540 NW Saint Helens Road Portland, OR 97210
Mail Address:	Same as above
Type of Business:	Coal Tar Pitch Terminal

2.3 Emergency Contacts/ Emergency Coordinators

Name/Address

Amos S. Kameron, Plant Manager
5912 Knightsbridge Drive
Portland, OR 97219

Home Phone [REDACTED] Cellular Phone (503) 705-8748

T.J. Turner, General Forman
17815 NE 152nd Ave.
Bush Prairie, WA 98606

Home Phone [REDACTED] Cellular Phone (503) 705-9507

The above people can normally be reached during work hours at the business phone number, (503) 286-3681. Additionally, the night shift operator, when there is a night shift during the normal 5 day work week, can be reached at (503) 286-3682 or cellular phone at (503) 250-0672.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

The plant manager is the Primary Emergency Coordinator and should be contacted first. If he is not available, the others should be called, in the order listed, until someone is reached. The Primary Emergency Coordinator and alternates have complete authority to commit all necessary resources of the company in the event of an emergency.

During off shifts, the shift operator will notify the Emergency Coordinator (above) who will assume responsibility for implementation upon his arrival at the terminal. Also, on weekends and holidays when there is no shift work occurring, the terminal is patrolled by NW Natural's Pinkerton Security guards who make rounds through the terminal, hourly. The guards have been provided with a list of emergency phone numbers to call in case of a problem.

Phone numbers for Koppers Industries Corporate Contacts are provided on Page 14.

2.4 Hazardous Materials Inventory

The products used, or stored on the Koppers facility are listed by tank number in, Table 3.7. (Tank Listings Table) and is found on page 11. These tank's are also shown by number on the site map, found on page 26. All other buildings and structures are also shown on the site map.

3.0 SPILL PREVENTION, CONTROL, AND COUNTERMEASURES

3.1 Description

This section of the Plan provides information specific to the storage and handling of hazardous liquids, spill prevention and containment equipment, and countermeasures to be implemented to control the impact of a spill. The Tank Listings Table, Table 3.11, lists all the tanks at the Koppers terminal by number, along with contents and the tank capacities. The location of these can be found on the site map, on page 26.

3.2 Conformance with SPCC Standards and Guidelines

This facility meets the minimum requirements for diversionary structures and equipment to prevent discharged oil or hazardous substances from reaching navigable waters as required by 40 CFR 112.7© by providing secondary containment for all major tanks and process equipment.

The Northwest terminal is in conformance with the applicable guidelines of 40 CFR 112.7 ©. Rainwater is collected, stored and then tested prior to discharge, all in accordance with our NPDES permit requirements. Tank installations are equipped with secondary containment and are regularly inspected by operators. Spill prevention details for equipment and processes are discussed more fully below.

3.3 Inspections and Security

All operational areas in the plant are checked every 2 hours by the operator that is on duty, through out each shift. Any problems or unusual circumstances which can not be immediately resolved are reported to the Supervisor.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

3.4 General Plant Spill Prevention

A hazardous material spill can occur any place, any time. All employees are prepared to respond immediately to control the situation and to notify management. Containing a spill to the smallest area possible is the first step.

Containment can quickly be constructed using available equipment and supplies; usually by placing dirt, sand, or available absorbent pads or absorbent containment booms around the lower side of a spill. If possible, a spill will be prevented from reaching the surface water drainage where it can spread more rapidly and have greater environmental and health impact.

Loading operations are supervised by employees familiar with the equipment involved. Buckets and/or pans are placed under hose connections to collect drips. The employees are trained to always be prepared that hoses and/or pipelines can be full of product and to take extra care when disconnecting hoses. Properly, and promptly cleanup any drips or spills. Supervisors must be notified of any spills that are outside of the containment areas. Collected materials will be returned to the processes or will be properly containerized for disposal.

3.5 Surface Drainage

The terminal property is at 37' above sea level and our out-fall for pumping off the collected storm runoff is located on the very southeastern tip of the property, at approximately a 10 ft elevation above a creek that flows to the Willamette River.

In the Northwest terminal there are two run-off patterns for site drainage. The first is directly in front of the office and away from any pitch handling areas. This area would not be threatened by a spill. All other run-off areas from the plant feed into the tank farm and then into a concrete collection sump. Dual sump pumps (one operation and one standby) lift the run-off into the storm water storage tanks #1, #2, #3, #4, #5, and #6. When these tanks fill, they are sampled and the samples are taken to an Oregon Department of Environmental Quality approved laboratory for analysis in accordance with our NPDES permit. When the laboratory reports that the test results are within the parameters allowed in the NPDES permit, the water is pumped to the out-fall referenced above.

Equipment, including secondary spill containment, has been installed and procedures implemented to prevent oil or hazardous materials from leaving the plant. A spill is most likely to occur in the process area, where it can be contained.

Koppers has installed extensive paving at the coal tar distillate tank car heat exchanger unloading station, including paving between the rail tracks and the loading area for trucks. In addition, a below grade sealed concrete sump was installed as a catch basin. This catch basin has approximately 1500-gallon capacity. Also two-sump pumps have been installed. The first pump is automatically activated and pumps collected storm water into the tank farm storm water run-off, collection system for further handling.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

The second pump is energized only when unloading coal tar distillate rail cars. This pump is on a float activated switch and is piped to #39 tank, which is now designated as the emergency response tank at this location. Tank #39 is of sufficient capacity to hold the gallonage of a full tank car or 20,000 gallons. It is the duty of the loading/unloading employee to clear the catch basin of water, then open the valve to tank #39 and energize the automatic pump. In this way, should a creosote spill occur, all precautions are in place to contain the release.

In the case of a spill in which hazardous materials or oils reach any of the drainage ditches, immediate action must be taken to contain the spill. Temporary earth dams should be constructed using plant equipment along the ditches, creating a series of impoundments to contain the flow. Sorbent booms may be used to remove containments from the water held behind the dams, is needed.

These dams can only hold back a limited amount of water, so emergency help should be contacted at the first sign that such a spill has occurred or may occur.

3.6 Tank Car Unloading

Tank cars are unloaded at the unloading station, where the process transfer pipelines are all above ground. The potential spill sources in this area include leaks from the process tanks, valves, pumps, and pipe systems. These leaks can best be prevented by proper valve and pump maintenance and equipment inspection during material transfers. Any leaks or drips must be cleaned up immediately.

As part of the operation procedures, drains and outlets on tank trucks and tank cars are checked for leakage before and after each loading and unloading operation. Operations personnel performing loading and unloading activities are instructed to inspect piping and pumps associated with these activities and to report spills or leakage.

The driver performs a visual inspection of the truck and trailer after each loading and if repairs are needed the truck is shopped for repairs.

The operating procedures included in this plan form the basis for the training of operations personnel in the prevention of coal tar distillate or coal tar pitch discharges. Job positions within the Northwest terminal require that new personnel, working in unfamiliar process areas will have a senior experienced employee to guide them. Personnel are also instructed in the operation and maintenance of equipment to prevent discharges.

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3.7 Vessel Unloading

As of December 1999 a project was completed which gives this facility the capability of unloading liquid coal tar pitch vessels at the GASCO dock, directly to a new storage tank T-200. The unloading is accomplished through a pipeline that runs from the GASCO dock on the Willamette River to tank T-200. The liquid coal tar pitch is unloaded at an elevated temperature of approximately 400 degrees F. To maintain the liquid pitch at these temperatures there is a companion line that is attached to the outside of the unloading line, with a heat transfer oil running through it to provide the maintenance heat that is required. There is containment on the GASCO dock, at the end of the pipeline, should a release occur. In an effort to minimize the impact of such a release, a leak detection monitoring system has been installed on the heat transfer oil lines, which will automatically shut off the flow of the heat transfer oil, to and from the dock. There is curbed containment at the on shore leak detection monitoring station; and also around the tank T-200 area, should a release occur at either location.

The discharges of our liquid coal tar pitch vessels, at the GASCO dock, will be handled through a contract for the tankermen services, with Pacific Terminal Services, Inc.(PTSI). PTSI has amended their operating authority letter with the U. S. Coast Guard, their Oil Spill Contingency Plan, and their Operating Manual, to reflect the addition of the handling our liquid coal tar pitch.

3.8 Tank Farm

The concrete-wall-lined and earth-diked tank farm has a total containment capacity of approximately 2,900,000 gallons. Operators regularly walk and inspect this area, checking for corrosion, leaks or stains, or anything out of the ordinary. They also do any housekeeping, as necessary.

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Table 3.8
TANK LISTING TABLE
Koppers Industries, Northwest Plant

<u>Tank No.</u>	<u>Current use</u>	<u>Last contained</u>	<u>Capacity (000)</u>
1.	SW Surge	Crude Tar	660 M
2.	SW Surge	Crude Tar	1065 M
3.	SW Surge	Methyl Solvent	99 M
4.	SW Surge	Lt. Uncorrected Creosote	99 M
11.	SW Surge	Creosote	254 M
12.	SW Surge	Unknown	57 M
17.	SW Surge	Heavy Oil	20 M
18.	SW Surge	NSR Oil	20 M
19.	SW Surge	P & R Oil	20 M
20.	SW Surge	Creosote	317 M
23.	SW Surge	Lt. Uncorrected Creosote	20 M
33.	Heavy Oil	Heavy Oil	45 M
34.	SW Surge	NSR Oil	45 M
39.	SW Surge	Creosote	20 M
53.	SW Surge	Creosote	10 M
65.	Liquid Pitch	Heavy Oil	761 M
66.	SW Surge	Creosote	191 M
67.	Heavy Oil	Heavy Oil	102 M
68.	Liquid Pitch	Liquid Pitch	248 M
74.	SW Surge	Creosote	20 M
99.	SW Surge	Creosote	209 M
101.	SW Surge	Creosote	759 M
102.	Fume Tank	Heavy Oil	9.3 M
200	Liquid Pitch	Liquid Pitch	2100 M
V201	SW Surge	Liquid Pitch	19 M
V207	SW Surge	Liquid Pitch	19 M
240	Heat Transfer Oil	Heat Transfer Oil	2 M
250	Heat Transfer Oil	Heat Transfer Oil	2 M
SW #1	Storm Water (SW)		45 M
SW #2	Storm Water (SW)		45 M
SW #3	Storm Water (SW)		45 M
SW #4	Storm Water (SW)		45 M
SW #5	Storm Water (SW)		20 M
SW #6	Storm Water (SW)		20 M

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3.9 Fuel and Lubrication Oil

Lubricating Oil is stored in 55-gallon drums, most of which are stored in the oil house building. Drums are stored upright and kept sealed. Dispensing areas are kept clean. Oil drippage is contained. Any minor spills are contained and cleaned up immediately.

3.10 Hazardous Waste Storage Facilities

Hazardous waste is placed in drums when generated. Full drums are stored in the drum storage area adjacent to the track 5 heating station. The drum or drums are then disposed of through RCRA approved facilities, within less than 90 days.

4.0 EMERGENCY RESPONSE PROCEDURES

4.1 General

This section of the Plan describes the actions that are to be taken by Koppers personnel in response to any injury, accident, fire explosion, or unplanned release of any hazardous material to the air, soil, or water.

4.2 Emergency Coordination

As soon as an employee discovers an emergency situation, that person shall quickly estimate the extent of the problem, take safe and appropriate control action, and then notify the terminal management immediately. Per the list in Section 2.3 page 7, the operator, who is present will assume the responsibilities of Emergency Coordinator (EC). Other personnel will respond as directed by the EC as needed.

The EC has Koppers Industries' authority to commit plant employees and contract labor and equipment, or to purchase supplies as needed.

Effective communication is vital in any emergency response. All terminal employees have portable two-way radios, which will be used for communication and coordination between the plant offices and yard areas. Phones may also be used between offices.

4.3 Immediate Response

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As soon as an employee discovers an emergency situation, he should quickly determine the extent of the problem. If a simple action can be taken to control the situation, such as shutting a valve to stop the flow from a ruptured pipe and can be done safely, then the control action should be completed first. If there is no simple safe control action, or after taking such action, the operator shall immediately notify the terminal management and any other personnel who may be endangered by the incident, by phone or radio.

4.4 Response Procedures

4.4.1 Upon discovery or notification that an emergency exists, the EC shall:

- Determine the extent of the emergency.
- Implement plant evacuation, if needed, to prevent injury.
- Call for outside assistance as needed.
- Start immediate control actions.
- Implement cleanup or other responses.
- Notify local, state, and federal agencies as required.
- Notify Koppers Pittsburgh Office.
- Assure completion of cleanup.
- Provide for storage of cleanup material, including hazardous waste.
- Evaluate possible hazards to human health or environment.
- Make a final written incident report.
- Make other notifications as stated in Section 3.5, Emergency Notifications.

Many of these actions may occur concurrently.

4.4.2 Whenever there is a release, fire, or explosion, the emergency coordinator should immediately identify the character, exact source, the amount, and area affected by the incident. This may be done by observation, or review of facility records, or manifests and if necessary, by chemical analysis. Form 4.5.5, pages 17 – 20, should be used to document the information needed for notifications.

4.4.3 Concurrently, the Emergency Coordinator shall assess possible hazard to human health or the environment that may result from the release, fire, or explosion. This assessment shall consider both direct and indirect effects of the release, fire, or explosion (e.g., the effects of any hazardous or asphyxiating gases that are generated or the effects of any hazardous surface water run-off from water or chemical agents used to control fire and heat-induced explosions).

4.4.4 If the Emergency Coordinator determines that the facility has had a release, fire, or explosion which could threaten human health, or the environment, outside of the facility, or if the released amount or hazardous or extremely hazardous material exceeds the

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Reportable Quantity (RQ). These findings shall be immediately reported to the National Response Center as in Section 4.5, Emergency Notifications.

Note: That the reportable quantities for materials are listed in Section 4.5.

If his assessment indicates that evacuation of local areas may be advisable, appropriate local authorities shall be notified immediately. The Emergency Coordinator shall be available to help appropriate officials decide whether local areas should be evacuated.

4.4.5 During an emergency, the Emergency Coordinator shall take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, recur, or spread to other hazardous wastes or materials at the plant. These measures could include turning water sprays onto tanks, stopping and isolating processes, shutting off power to areas, collecting and containing released materials, or moving and isolating other containers.

4.4.6 If some or all operations are stopped in response to an emergency, the emergency coordinator shall monitor tanks, pipes, valves, and other process equipment for leaks, pressure build-up or ruptures wherever appropriate.

4.4.7 Immediately after an emergency, the Emergency Coordinator shall provide for treating, storing, or disposing of recovered materials or wastes, contaminated soil, surface water, or any other material that results from a release, fire or explosion.

4.4.8 Before resuming operations, the Emergency Coordinator shall:

- a. Insure that clean-up is complete to the point that operations will not interfere or create further potential for hazardous waste release.
- b. Insure that all emergency equipment is cleaned and fit for use.
- c. If hazardous wastes or a hazardous waste unit has been involved, then advise the Dept. of Environmental Quality and EPA region X that Steps a and b above are complete.

4.4.9 If hazardous wastes or the hazardous waste unit has been involved, the Emergency Coordinator shall submit a written report as requested by the Dept. of Environmental Quality. A copy of the completed report shall be maintained in the Operating Record.

4.5 Emergency Notifications

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4.5.1 The Emergency Coordinator shall ensure that the necessary notifications are made. Form 4.5.5 entitled, "Emergency and/or Hazardous Materials Incident Report" is to be used. Page one is organized to provide all of the information needed for the initial verbal notification of the National Response Center of other agencies. As soon as a spill or other incident is discovered, the supervisor/manager who will do the reporting should begin filling in the information.

Page 2 should be used as a log of notification made. Get the position and name of the person who accepts the phone notifications. Also, if an incident number is assigned, as by the National Response Center, that number should be recorded. As more is learned about the incident, the report should be updated. Updates can be recorded on page 2 as well.

Pages 1,2, and 3, completed either by hand or typed, can be used for the required written notification of agencies. These should be sent with cover letters showing everyone who will get copies. Copies must be kept in the plant's Operating Record.

Finally, page 4 should be used for Koppers Industries internal reporting of additional related information. KII has an obligation to report all spills, which could possibly, impact over-all cleanup work. The complete report, Pages 1,2,3, and 4 should be sent to the Environmental Program Manager including original photographs. He will provide the required notification to Beazer East, Inc.

4.5.2 What spills or incidents must be reported and to whom?

The following is a summary. Note that more than one category may apply.

If outside help is needed. IMMEDIATELY:

Call fire and/or other appropriate emergency agencies describe incident and needed assistance, such as fire suppression, medical aid, evacuation and/or crowd control.

If a release or threatened release of hazardous material: OR

If a health threat or release outside of facility: OR

If the release results in or has the potential to cause an oil sheen on or discoloration of runoff water:

Call 911 for immediate help. If the release involved a Reportable Quantity (RQ) then call both the Oregon Emergency Management Office at 1-800-424-8802 and the National Response Center at 1-800-424-8802.

Such releases that cannot be recovered must also be included in the SARA Title III annual reports.

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If the release results in or has the potential to reach the City Storm or Sanitary Sewer drains, IMMEDIATELY:

Call the Duty Officer at 823-7180

If hazardous waste or a hazardous waste unit is involved OR if the plant contingency plan is implemented: IMMEDIATELY AND NOT LATER THAN 24 HOURS:

Call the Oregon Emergency Management Office at 1-800-452-0311

AND, Within 15 days

Submit a written report of the incident to them at:

595 Cottage Street. N.E.
Salem, Oregon 97310

If the release impacts the waters of the United States, a written report must also be sent to the EPA, as follows: Environmental Protection Agency

Director, Region X
1200 Sixth Avenue
Seattle, Wash. 98101

If injuries result in 3 or more people being hospitalized or 1 or more person killed, IMMEDIATELY:

Call the US Occupational Safety and Health Administration or authorized state OSHA agency **WITHIN 8 HOURS!**

In all cases, as soon as the emergency situation allows, Koppers management in Pittsburgh shall be called. Follow the guidance contained in "Internal Emergency Notification Procedures" for Koppers Industries, Inc. At least one of the following contacts in Pittsburgh shall be notified:

<u>Name, Position</u>	<u>Work Phone</u>	<u>Home Phone</u>	<u>Cellular Phone</u>
Traci Self, Mgr. Environmental Compliance	412/227-2883		412/913-9358
Mike Juba, Mgr. Health & Safety	412/227-2882		412/897-8407
Randy Collins, Mgr. Loss Control	412/227-2456		412/551-4554

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Form 4.5.3

**EMERGENCY AND/OR HAZARDOUS MATERIALS
INCIDENT REPORT**

OWNER/OPERATOR: Koppers Industries, Inc.
Plant Name: Northwest Terminal
Street Address: 7540 N.W. Saint Helens Road.
City/State/Zip: Portland, Or 97210-3663
Phone: (503) 286-3681
EPA ID#: ORD 0267734359

FACILITY: Same as above

DATE OF INCIDENT: _____ TIME OF INCIDENT: _____

TYPE OF INCIDENT: Fire, Explosion, Hazardous Material Spill,
(circle one) Hazardous Waste Spill, Injury Accident

Other: _____

MATERIAL INVOLVED:

<u>Name</u>	<u>Quantity</u>	<u>Media (soil, water, etc.)</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

EXTENT OF INJURIES, IF ANY:

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DISPOSITION OF RECOVERED MATERIAL:

<u>Material</u>	<u>Quantity</u>	<u>How Disposed or Stored</u>
-----------------	-----------------	-------------------------------

Form 4.5.3
**EMERGENCY AND/OR HAZARDOUS MATERIALS
INCIDENT REPORT**

NOTIFICATION LOG:

<u>Agency</u>	<u>Phone No.</u>	<u>Name of Person</u>	<u>Date/Time Notified</u>
---------------	------------------	-----------------------	---------------------------

Portland Fire Dept.	911	_____	_____
---------------------	-----	-------	-------

Oregon Emergency Management	1-800-452-0311	_____	_____
-----------------------------	----------------	-------	-------

National Response Center	1-800-424-8802	_____	_____
--------------------------	----------------	-------	-------

Oregon OSHA	229-5910	_____	_____
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City Duty Officer	823-7180	_____	_____
(For Storm, Sewer, Drain Contamination, only)			

Northwest Natural	224-3532	_____	_____
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Wacker Siltronics	243-2020	_____	_____
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Security for FAB #1	Ext. 7420	_____	_____
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Security for FAB #2 Ext. 4300

Fuel & Marine Marketing, LLC
286-5321

Form 4.5.3
**EMERGENCY AND/OR HAZARDOUS MATERIALS
INCIDENT REPORT**

Manager of Environmental Compliance, Traci Self

Office 412-227-2883
Home 412-247-5515
Cellular 412-913-9358

ADDITIONAL DESCRIPTION OF INCIDENT AND ACTIONS TAKEN (Attach page if needed):

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REPORT BY (Name): _____ DATE _____

REPORT REVISED: _____ DATE _____

REPORT REVISED: _____ DATE _____

Table 4.5.3
**EMERGENCY AND/OR HAZARDOUS MATERIALS
INCIDENT REPORT**

SUPPLEMENTAL INFORMATION REPORT

(This part of the report is intended for KII internal use only.)

CLEARLY DESCRIBE HOW INCIDENT OCCURRED:

WHAT ACTS OR CONDITIONS MOST DIRECTLY CAUSED THE INCIDENT:

DESCRIBE ANY RESIDUAL CONTAMINATION OR IMPACT:

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ATTACH PHOTOGRAPHS WHICH SHOW INCIDENT AREA, BEFORE AND AFTER RESPONSE ACTIONS. MARK DATE ON PHOTOS. ATTACH ADDITIONAL SHEETS AS NEEDED TO DESCRIBE INCIDENT AND THE RESPONSE ACTIONS TAKEN.

4.6 Available Equipment

The following equipment is available at the plant:

<u>EQUIPMENT</u>	<u>STORAGE LOCATION</u>
Front-end loaders	2 in the pitch storage building and 1 outside the shop.
1 Pickup Truck	Office parking lot
Absorbent Pads and Booms	Various Emergency Response Cabinets
Lift Truck	Shop area
Portable Pump	Shop area
Sand	Along the wall, to the West of the boiler house

The above equipment can be effectively used to control and clean a spill of oil, hazardous material, or hazardous waste. Trucks and tractors can be used to transport and place soil for containment dams, absorbing spilled liquid, and contaminated soil from cleanup actions. Pumps can be used to pump spilled liquid back into containments. After response action is complete, equipment should be placed on the drip pad or vehicle wash pad and be decontaminated with the steam cleaner prior to being released from the response.

4.7 Emergency Response Contract Service

Koppers has a Corporate Agreement with IT Corporation to provide for any environmental services in the event of an emergency. IT Corporation can be reached 24 hours per day at # 1-800-537-9540. Ask for the "EMERGENCY RESPONSE MANAGER". IT Corporation is to provide notification within 30 minutes after receipt of the emergency call, of its acceptance of the work and their expected response time.

4.8 Fire and Disaster Response Plans

4.8.1 This section of the Plan provides additional information on specific response actions to be taken in the event of a major disaster, emergency, or other disruption. Such an event could include:

- Fire or explosion
- Earthquake
- Strike or civil strife

4.8.2 Fire disasters can occur anywhere in the plant environment, so all

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employees should be knowledgeable as to the proper method for handling all types of fires, and where the largest potential risk areas are located. Communications with and between plant employees is vital to a safe and effective response.

4.8.3 Designated Response Stations

In the case of a disaster or other major incident, employees shall secure their work areas and processes and then report to the Plant Manager and/or General Foreman, at the main office, if they are not directly involved in Emergency Response.

Plant Office Employees stay at the office. Coordinate outside calls, inquiries, and media contacts.

4.8.4 Evacuation

The need for evacuation shall be signaled by a message over the radio to all employees. All employees shall follow the safest path to meet at the closest location outside the property fence. If the main entrance is **not** affected, the employees should meet at Wacker Siltronics guard shack on the entrance road. If the main entrance is effected, than the closed safe location outside the property fence will have to be determined; generally, that would be towards N W Naturals LNG plant or towards the river behind the pencil pitch storage buildings.

Supervisors shall account for all of their employees, notify the EC when they are "all clear" and relay further instructions. An alternate location will be designated and announced at the time of the incident if the Main office is not a safe check-in location.

4.8.5 Fire Suppression Systems

Fire Hose and Hose Reels are located at strategic points around the terminal. Employees must be familiar with ones within their work areas.

Fire Extinguishers are located throughout the plant and on rolling stock. CO-2 and ABC Dry Chemical types are used exclusively.

Dry Fire Water Suppression piping system is located at the ship unloading dock.

4.8.6 Civil Strife, Strike

Emergencies resulting from or shutdowns as a result of, civil strife or strike situations require the control of people entering the plant, both authorized and unauthorized. Local law enforcement agencies can be helpful in achieving this goal, but in-plant security is management's immediate concern. When a total shutdown is planned, and security measures are to be implemented, the following should be observed.

Boiler

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- Secure door locks.
- Follow established shutdown procedure.
- Assure that all steam line drains are open

Hazardous Waste Storage Area

- Properly store all hazardous waste drums in the Boiler House.
- Lock doors.

Major Operations

- Secure electrical panels.
- Turn off air compressors, shut valves.
- Store and secure portable tools, cords, hoses, etc.
- Clean up area for safety and fire protection.

Rolling Stock

- Park centrally in area in front of shop.

Gates

- Keep locked at all times.
- Put on new locks to prevent unauthorized entry.

Security Patrols

- Security patrols will be made 24 hours per day.
- Communication will be maintained at all times between the patrols and the main office by radio.

Lighting

- The plant has general yard lighting system consisting of flood lights, streetlights and incandescent lighting. Outdoor lighting in front of the main office is controlled by photocells.

4.9 Medical Emergency Plans

Emergency and first aid supplies are maintained at the following work locations:

Main Office (Main supply Center)
Control Room (Intermediate supply location)
Maintenance Shop (Intermediate supply location)

First aid supplies are intended for use on minor cuts, abrasions, and burns requiring simple care such as band-aids, disinfectant, or ointment. Supplies are also available for the immediate treatment of severe injuries while awaiting professional medical care, such as gauze pads, bandages, and splints.

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Any First aid applied at the plant by plant employee's, is in no way intended to replace any needed medical attention, but only to help prior to receiving professional treatment.

If serious Injury occurs, assure that an ambulance is called immediately.

5.0 STORM WATER POLLUTION PREVENTION PLAN

5.1 General

This section of the Plan describes the pollution prevention procedures and facilities for this plant to minimize the impact of storm water runoff to the surrounding environment. This section specifically addresses the requirements of our Storm Water Industrial NPDES Permit.

5.2 Pollution Prevention Objectives and Process

All boiler blowdown water and storm water runoff is collected in our tank farm and is handled under the terms and conditions of our NPDES permit. No discharges are made unless they meet these terms and conditions.

6.0 TRAINING

All plant employees shall receive training on the content of this plan. Supervisors will each receive a copy and become thoroughly familiar with it through training, discussion, and self study. Supervisors will train their employees in the overall plan and in the specific needs of their work areas.

Training will, at a minimum, include programs to ensure that facility personnel understand basic procedures for pollution prevention and good housekeeping and are able to respond effectively to emergencies by familiarizing them with emergency procedures, emergency equipment, and emergency systems, including, as applicable to each employee's job function:

- Procedures for using, inspection, repairing, and replacing facility emergency and monitoring equipment;
- Communications and alarm systems;
- Response to fires or explosions;
- Response to ground water or surface water contamination
- Shutdown of operations;
- Methods for the safe handling of hazardous materials;

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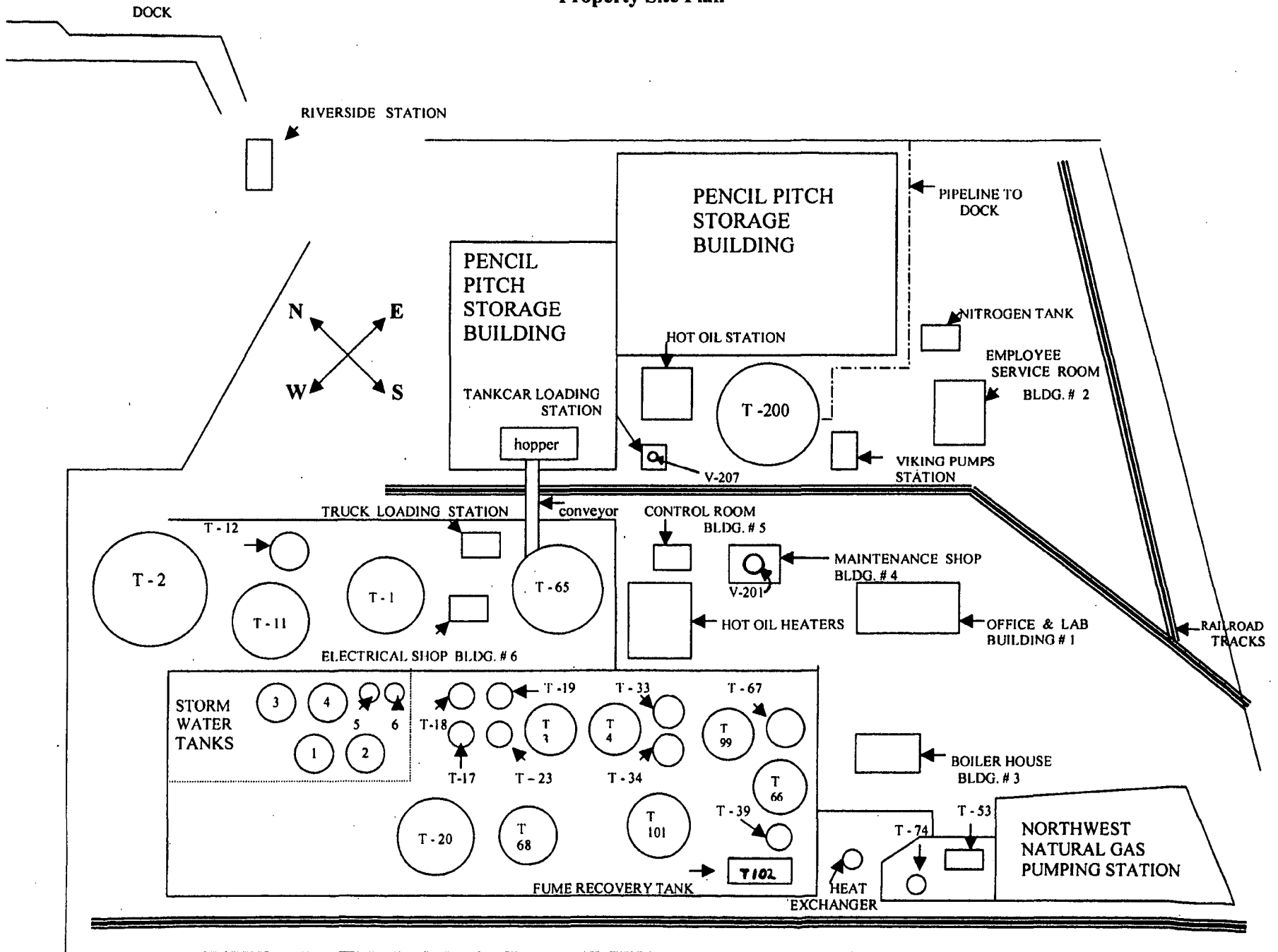
- Procedures for coordination with local emergency response organizations;
- Use and location of medical supplies;
- Use of emergency response equipment and supplies appropriate to work areas;
- Emergency response procedures and plans contained within this SPCC and Contingency Plan.

Refresher training will be provided at least annually. New employees will not work in unsupervised positions until they have completed all training required for those positions. Supervisors will provide training to their employees and management will assure that supervisors are properly trained.

Employees with specific additional job related training needs will also be given that training, such as hazardous waste handling training as required by RCRA and State regulations, hazardous waste operating procedures for fuel additive to the boiler, storm water pollution prevention, and waste water operations.

This training may be coordinated and take place concurrent with Hazard Communication and RCRA training. Safety meetings, and annual updates.

Property Site Plan



ORIGINAL COPY

CONTINGENCY, SPCC, AND
POLLUTION PREVENTION PLAN

KOPPERS INDUSTRIES, INC.

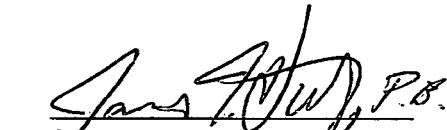
PORTLAND PLANT

PORTLAND, OR

CONTINGENCY PLAN,
SPILL PREVENTION, CONTROL
AND COUNTERMEASURES (SPCC) PLAN
AND
STORM WATER POLLUTION PREVENTION PLAN
KOPPERS INDUSTRIES, INC.
PORTLAND PLANT
PORTLAND, OR
May 1, 1998

CERTIFICATION

I hereby certify that I have inspected the subject facility, and being familiar with the provisions of 40 CFR 112 for SPCC requirements and 40 CFR 122 for Storm Water Pollution Prevention requirements, attest that this Plan has been prepared in accordance with good engineering practices.


James T. Dietz, P.E.
Manager of Engineering
PENNA. # PE-039031-E

Date: May 18, 1998

MANAGEMENT APPROVAL

This SPCC Plan will be implemented as herein described.


Amos S. Kameron
Plant Manager



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SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

1.0 INTRODUCTION

This plan has been developed to: a) provide a basis for planning for and responding to potential spills, accidents, fires, or other contingencies and b) describe and implement practices to minimize and control pollutants in storm water discharges and ensure discharge permit compliance. It includes the requirements for the Contingency Plan as required by the Resources Conservation and Recovery Act (RCRA), the Spill Prevention, Control, and Countermeasures (SPCC) Plan and Storm Water Pollution Prevention Plan (SWPPP) of the Clean Water Act, and the inventory reporting requirements of the Emergency Planning and Community Right-to-Know Act (SARA Title III).

Questions concerning this plan may be directed to:

Amos S. Kamerer	Plant Manager	(503) 286-3681
T.J. Turner	General Foreman	(503) 286-3681

1.1 FACILITY LOCATION

The Portland plant is located in Multnomah County in the city of Portland, OR. The terminal is located on approximately 6.4 acres of leased property. The property owner is the Northwest Natural company, 220 NW 2nd Ave., Portland, OR, 97209. The portion of the property that Koppers Industries leases is addressed as 7540 N.W. Saint Helens Rd., Portland OR, 97210. The property is bounded by Saint Helens Rd (Oregon State Highway 30) on the south, the Northwest Natural Company property extending to the shore of the Willamette River on the North, The Northwest Company Liquified Natural Gas Plant on the west. The end of N.W. Front Ave. separates Koppers property from Wacker Siltronic Corporation, on the eastern boundary. 11 people are employed at the terminal (4 salaried people, 7 hourly people). Normal operating hours are from 4:00 p.m. on, Sundays through 4:00 p.m. on Fridays. Generally, the plant is closed on the weekends.

1.2 OPERATION

Coal tar pitch and other related products are shipped into the terminal from our four domestic production plants via tank cars or are imported via bulk cargo ships. These products are then stored, or further remanufactured at the terminal, prior to the distribution to our customers. Outbound shipments are then made via tank truck or tank cars.

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All products and/or chemicals used or handled through the terminal are covered by material safety data sheets which are on file. All employees have been trained on the usage of these materials and educated in the proper manner of reading and understanding of the material safety data sheets. This training is mandatory and retraining is given annually.

1.3 COORDINATED EMERGENCY SERVICES

This plan is written to facilitate the quick and efficient coordination of emergency response actions between Koppers Industries Inc. (Koppers) and any emergency response companies or agencies which may be needed. Copies of this plan, and updates, are provided to the following:

Oregon Department of Environmental Quality
Portland Fire Department
City of Portland, Environmental Services Dept.
U.S. Coast Guard
Plant Supervisors

Instructions on how and when to obtain assistance for emergency situations, including agency and contractor phone numbers, are included in section 4 of this plan.

1.4 SPCC AND SWPPP PLAN MAINTENANCE

This Plan must be kept up to date. Notify Koppers' Environmental Program Manager in the event of any change made. Automatic review, evaluation and recertification by a Professional Engineer is required once every three years from the date of the latest certification. This Plan must also be amended whenever there is a change in design, construction, operation or maintenance which materially affects the facility's potential for discharge, and the amendment fully implemented as soon as possible and no later than within six months.

A copy of this Plan is to be maintained in the plant's main office and the plant's melter control room.

Notify the Environmental Program Manager if any amendment needs to be made to this Plan.

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2.0 INVENTORY OF OIL AND HAZARDOUS MATERIALS

2.1 Discussion

Various materials used at the Koppers facility are considered hazardous based on the toxicity or flammability of those materials. These include creosote that is used in the industrial processes to pressure treat wood products, unusable waste products from these processes, boiler water treatment chemicals, and fuel and lubricants for plant vehicles and equipment.



2.2 Business Information and Identification

The following information applies to the Koppers Industries Portland Plant:

Business Name:	Koppers Industries, Inc.
Business Phone:	(503) 286-3681
Business Fax:	(503) 285-2831
Owner:	Koppers Industries, Inc. 436 Seventh Ave. Pittsburgh, PA 15219
Operator:	Same as owner.
SIC Code:	2865
EPA ID Number:	ORD 027734359
Site Address:	7540 N.W. Saint Helens Rd. Portland, OR 97210
Mail Address:	same as above
Type of Business:	Creosote, Refined Tars and Coal Tar Pitch Terminal

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2.3 Emergency Contacts/Emergency Coordinators

<u>Name/Address</u>	<u>Title</u>	<u>Home Phone</u>
Amos S. Kamerer 5912 S.W. Knights Bridge Dr. Portland, OR 97219 Cellular Phone Number	Plant Manager	 (503) 705-8748
T.J. Turner 17815 N.E. 152nd Ave. Brush Prairie, WA 98606	General Foreman	

The above people can normally be reached during work hours at the business phone number, (503) 286-3681. Additionally, the night shift operator (when there is a night shift) can be reached at (503)286-3682.

The plant manager is the Primary Emergency Coordinator and should be contacted first. If he is not available, the others should be called, in the order listed, until someone is reached. The Primary Emergency Coordinator and alternates have complete authority to commit all necessary resources of the company in the event of an emergency.

During off shifts, holidays, and weekends, the shift operator will be the acting Emergency Coordinator. During these times, the shift operator will notify the Emergency Coordinator, above, who will assume responsibility for implementation upon his arrival at the plant. Also on nights, weekends and holidays when there is no shift work occurring the plant is patrolled by N.W. Natural's Pinkerton Security guards who make rounds of the plant hourly. The guards have been provided with a list of emergency phone numbers to call in case of a problem.

Phone numbers for Koppers Industries Corporate Contacts are provided on Page 14.

2.4 Hazardous Materials Inventory

The primary hazardous materials which are used or stored on the Koppers site are listed by tank in Table 3.7, Tank Listings Table, on page 10. The tanks and facilities are shown on the site map by number or name, on page 26.

3.0 SPILL PREVENTION, CONTROL, AND COUNTERMEASURES

3.1 Description

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This section of the Plan provides information specific to the storage and handling of hazardous liquids, spill prevention and containment equipment, and countermeasures to be implemented to control the impact of a spill. The Tank Listings Table, Table 3.7, lists all the tanks at the Koppers plant by number along with contents, and capacity. Locations can be found for processes and tanks on the site map, on page, on page 26.

3.2 Conformance with SPCC Standards and Guidelines

This facility meets the minimum requirements for diversionary structures and equipment to prevent discharged oil or hazardous substances from reaching navigable waters as required by 40 CFR 112.7(c) by providing secondary containment for all major tanks and process equipment.

The Portland plant is in conformance with the applicable guidelines of 40 CFR 112.7(e). Rainwater is collected, stored and then inspected prior to discharge, all in accordance with our NPDES permit requirements. Tank installations are equipped with secondary containment and are regularly inspected by operators. Spill prevention details for equipment and processes are discussed more fully below.

3.3 Inspections and Security

The operational areas in the plant are checked hourly by the operator on duty throughout each shift. The tank area is routinely checked by the operator on duty. Any problems or unusual circumstances which can not be immediately resolved are reported to the Supervisor.

3.4 General Plant Spill Prevention

A hazardous material spill can occur any place, any time. All employees are prepared to respond immediately to control The situation and to notify management. Containing a spill to the smallest area possible is the first step.

Containments can quickly be constructed using available equipment and supplies; usually by placing dirt, sand, or available absorbent pads or absorbent containment booms around the lower side of a spill. If possible, a spill should be prevented from reaching the surface water drainage, where it will spread more rapidly and have greater environmental and health impact.

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Loading operations are supervised by employees familiar with the equipment involved. Buckets or pans are placed under hose connections to collect drips.

Be prepared for hoses and pipes to be full and for liquid to be behind valves. Properly, and promptly cleanup any drips or spills. Supervisors must be notified of any spills which are outside of containments. Oil, creosote, and other hazardous material deliveries are made by vehicles complying with DOT spill control regulations. Unloading is supervised by plant operators. Collection pans should first be readily available. Collected material must be returned to the processes or be properly containerized for disposal.

3.5 Surface Drainage

The plant property is at 37' above sea level and our outfall for pumping off the collected storm runoff is located on the very south eastern tip of the property, at approximately a 10 ft. elevation above a creek that flows to the Willamette River.

In the Portland terminal there are two run-off patterns for site drainage. The first is directly in front of the office and away from any creosote or pitch handling areas. This area would not be threatened by a spill. All other run-off areas from the plant feed into the tank farm and then into a concrete collection sump. Dual sump pumps (one operating and one standby) lift the run-off into the storm water storage tanks #1, #2, #3, #4, #5 and #6. When these tanks fill, they are sampled and the samples are taken to an Oregon Department of Environmental Quality approved laboratory for analysis in accordance with our N.P.D.E.S. permit. When the laboratory reports that the test results are within the parameters allowed in the N.P.D.E.S. permit, the water is pumped to the out-fall referenced above.

Equipment, including secondary spill containment, has been installed and procedures implemented to prevent oil or hazardous materials from leaving the plant. A spill is most likely to occur in the process area, where it can be contained.

Koppers has installed extensive paving at the creosote tank car heat exchanger unloading location, including paving between the rail tracks and the loading area for trucks. In addition, a below grade sealed concrete sump was installed as a catch basin. This catch basin has approximately 1500 gallon capacity. Also two sump pumps have been installed. The first pump is automatically activated and pumps collected storm water into the tank farm storm water runoff collection system for further handling.

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The second pump is energized only when we are unloading creosote rail cars. This pump is on a float activated switch and is piped to #39 tank, which is now designated as the emergency response tank at this location. Tank #39 is of sufficient capacity to hold the gallonage of a full tank car or 20,000 gallons. It is the duty of the loading/unloading employee to clear the catch basin of water, then open the valve to 39 tank and energize the automatic pump. In this way, should a creosote spill occur, all precautions are in place to contain the release.

In the case of a spill in which hazardous materials or oils reach any of the drainage ditches, immediate action must be taken to contain the spill. Temporary earth dams should be constructed using plant equipment along the ditches, creating a series of impoundments to contain the flow. Sorbent booms may be used to remove containments from the water held behind the dams, if needed.

These dams can only hold back a limited amount of water, so emergency help should be contacted at the first sign that such a spill has occurred or may occur.

3.6 Tank Car and Truck Unloading

Tank cars are unloaded at the Unloading Station, where the process transfer pipelines are all above ground. The potential spill sources in this area include leaks from the process tanks, valves, pumps, and pipe systems. These leaks can best be prevented by proper valve and pump maintenance and equipment inspection during material transfers. Any leaks or drips must be cleaned up immediately.

As part of the operating procedures, drains and outlets on tank trucks and tank cars are checked for leakage before and after each loading and unloading operation. Operations personnel performing loading and unloading activities are instructed to inspect piping and pumps associated with these activities and to report spills or leakage.

The driver performs a visual inspection of the truck and trailer after each loading and if repairs are needed the truck is shopped for repairs.

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The operating procedures included in this plan form the basis for the training of operations personnel in the prevention of creosote or coal tar discharge. Job positions within the Portland plant require that new personnel, working in unfamiliar process areas will have a senior experienced employee to guide them. Personnel are also instructed in the operation and maintenance of equipment to prevent discharges.

3.7 Tank Farm

All of the oil and hazardous material tanks are in the concrete-wall-lined and earth-diked tank farm. Containment capacity of this area is approximately 2,900,000 gallons is provided.

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Table 3.7
TANK LISTING TABLE
Koppers Industries, Portland Plant

<u>Tank No.</u>	<u>Contents</u>	<u>Size</u>	<u>Capacity (000)</u>
1.	Empty		660 M
2.	Empty		1065 M
3.	Methyl Solvent		99 M
4.	Lite Uncorrected Creosote		99 M
11.	Empty		254 M
12.	Empty		57 M
13.	Empty		20 M
17.	Empty		20 M
18.	Empty		20 M
19.	Empty		20 M
20.	Empty		317 M
23.	Empty		20 M
27.	Empty		20 M
33.	Heavy Oil		45 M
34.	N.S.R.		45 M
39.	Empty		20 M
53.	Empty		10 M
65.	Melter Pitch		761 M
66.	Empty		191 M
67.	Creosote		102 M
68.	Pitch Truck Storage Tank		245 M
74.	Empty		20 M
99.	Empty		209 M
101.	Empty		758 M
102.	Fume Recovery Tank (Creosote)		10 M
SW #1	Storm Water		45 M
SW #2	Storm Water		45 M
SW #3	Storm Water		45 M
SW #4	Storm Water		45 M
SW #5	Storm Water		20 M
SW #6	Storm Water		20 M
V 207	Empty		15 M

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3.8 Fuel and Lubricating Oil

Lubricating Oil is stored in 55-gallon drums, most of which are stored in the oil house building. Drums are stored upright and kept sealed. Dispensing areas are kept clean. Oil drippage is contained. Any minor spills are contained and cleaned up immediately.

3.9 Hazardous Waste Storage Facilities

Hazardous waste is placed in drums when generated. Full drums are stored in drums in the rear storage area of the maintenance building. The drum or drums are disposed of through RCRA approved facilities, within less than 90 days.

4.0 EMERGENCY RESPONSE PROCEDURES

4.1 General

This section of the Plan describes the actions that are to be taken by Koppers personnel in response to any injury, accident, fire, explosion, or unplanned release of any hazardous material to the air, soil, or water.

4.2 Emergency Coordination

As soon as an emergency situation is discovered by an employee, that person shall quickly estimate the extent the problem, take safe and appropriate control action, and then notify the plant management immediately. Per the list in Section 2.3, page 3, the operator, who is present will assume the responsibilities of Emergency Coordinator (EC). Other personnel will respond as directed by the EC, as needed.

The EC has Koppers Industries' authority to commit plant employees and contract labor and equipment, or to purchase supplies as needed.

Effective communication is vital in any emergency response. All plant employees have portable two-way radios which will be used for communication and coordination between the plant offices and yard areas. Phones may also be used between offices.

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4.3 Immediate Response

As soon as an employee discovers an emergency situation, he shall quickly determine the extent of the problem. If a simple action can be taken to control a release, or other emergency, such as shutting a valve to stop the flow from a ruptured pipe and can be done safely, then the control action should be completed first. If there is no simple safe control action, or after taking such action, the operator shall immediately notify the plant management and any other personnel who may be endangered by the incident by phone or radio.

4.4 Response Procedures

4.4.1 Upon discovery or notification that an emergency exists, the EC shall:

- Determine the extent of the emergency,
- Implement plant evacuation, if needed, to prevent injury,
- Call for outside assistance as needed,
- Start immediate control actions,
- Implement cleanup or other responses,
- Notify local, state, and federal agencies as required,
- Notify Koppers Pittsburgh Office,
- Assure completion of cleanup,
- Provide for storage of cleanup material, inc. hazardous waste
- Evaluate possible hazards to human health or environment,
- Make a final written incident report.
- Make other notifications as stated in Section 3.5, Emergency Notifications.

Many of these actions may occur concurrently.

4.4.2 Whenever there is a release, fire, or explosion, the emergency coordinator shall immediately identify the character, exact source, the amount, and area affected by the incident. This may be done by observation, or review of facility records, or manifests and, if necessary, by chemical analysis. Form 4.5.5, pages 17 through 20, should be used to document the information needed for notifications.

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4.4.3 Concurrently, the Emergency Coordinator shall assess possible hazards to human health or the environment that may result from the release, fire, or explosion. This assessment shall consider both direct and indirect effects of the release, fire, or explosion (e.g., the effects of any toxic, irritating, or asphyxiating gases that are generated, or the effects of any hazardous surface water run-off from water or chemical agents used to control fire and heat-induced explosions).

4.4.4 If the Emergency Coordinator determines that the facility has had a release, fire, or explosion which could threaten human health, or the environment, outside of the facility, or if the released amount of hazardous or extremely hazardous material exceeds the Reportable Quantity (RQ), the findings shall be immediately reported to the National Response Center as in Section 4.5, Emergency Notifications.

Note: that the reportable quantities for materials are listed in Section 4.5.

If his assessment indicates that evacuation of local areas may be advisable, appropriate local authorities shall be notified immediately. The Emergency Coordinator shall be available to help appropriate officials decide whether local areas should be evacuated.

4.4.5 During an emergency, the Emergency Coordinator shall take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, recur, or spread to other hazardous wastes or materials at the plant. These measures could include turning water sprays onto tanks, stopping and isolating processes, shutting off power to areas, collecting and containing released materials, or moving and isolating other containers.

4.4.6 If some or all operations are stopped in response to an emergency, the emergency coordinator shall monitor tanks, pipes, valves, and other process equipment for leaks, pressure build-up or ruptures wherever appropriate.

4.4.7 Immediately after an emergency, the Emergency Coordinator shall provide for treating, storing, or disposing of recovered materials or wastes, contaminated soil, surface water, or any other material that results from a release, fire, or explosion.

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4.4.8 Before resuming operations, the Emergency Coordinator shall:

- a. Insure that clean-up is complete to the point that operations will not interfere or create further potential for hazardous waste release.
- b. Insure that all emergency equipment is cleaned and fit for use, and
- c. If hazardous wastes or a hazardous waste unit has been involved, then advise the Dept. of Environmental Quality and EPA Region X that Steps a. and b above are complete.

4.4.9 If hazardous wastes, or the hazardous waste unit has been involved, the Emergency Coordinator shall submit a written report as requested by the Dept. of Environmental Quality. A copy of the completed report shall be maintained in the Operating Record.

4.5 Emergency Notifications

4.5.1 The emergency coordinator shall ensure that the necessary notifications are made. Form 4.5.5 entitled, "Emergency and/or Hazardous Materials Incident Report" is to be used. Page one is organized to provide all of the information needed for the initial verbal notification of the National Response Center or other agencies. As soon as a spill or other incident is discovered, the supervisor/manager who will do the reporting should begin filling in the information.

Pages 2 should be used as a log of notification made. Get the position and name of the person who accepts the phone notifications. Also, if an incident number is assigned, as by the National Response Center, that number should be recorded. As more is learned about the incident, the report should be updated. Updates can be recorded on page 2 as well.

Pages 1, 2, and 3, completed either by hand or typed, can be used for the required written notification of agencies. These should be sent with cover letters showing everyone who will get copies. Copies must be kept in the plant's Operating Record.

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Finally, page 4 should be used for Koppers Industries internal reporting of additional related information. KII has an obligation to report all spills which could possibly impact over-all cleanup work. The complete report, Pages 1, 2, 3, and 4 should be sent to the Environmental Program Manager including original photographs. He will provide the required notification to Beazer East, Inc.

4.5.2 WHAT SPILLS OR INCIDENTS MUST BE REPORTED AND TO WHOM?

Following is a summary. Note that more than one category may apply.

If outside help is needed. IMMEDIATELY:

Call fire and/or other appropriate emergency agencies, describe incident and needed assistance, such as fire suppression, medical aid, evacuation, and/or crowd control.

If a release or threatened release of hazardous material. IMMEDIATELY OR:

If health threat or release outside of facility: OR

If the release results in or has the potential to cause an oil sheen on or discoloration of runoff water:

Call 911 for immediate help. If the release involved a Reportable Quantity (RQ), then call both the Oregon Emergency Management Office at 1-800-424-8802.

Such releases that cannot be recovered must also be included in the SARA Title III annual reports.

If the release results in or has the potential to reach the City Storm or Sanitary Sewer drains. IMMEDIATELY:

Call the Duty Officer at 823-7180

If hazardous waste or a hazardous waste unit is involved OR if the plant contingency plan is implemented: IMMEDIATELY AND NOT LATER THAN 24 HOURS:

Call the Oregon Emergency Management Office at #1-800-452-0311

AND, Within 15 days

Submit a written report of the incident to them at:

595 Cottage Street, N.E.
Salem, Oregon 97310

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If injuries result in 3 or more people being hospitalized or 1 or more person killed. IMMEDIATELY:

Call the U.S. Occupational Safety and Health Administration or authorized state OSHA agency WITHIN 8 HOURS!

In all cases, as soon as the emergency situation allows, Koppers management in Pittsburgh shall be called. Follow the guidance contained in "Internal Emergency Notification Procedures" for Koppers Industries, Inc. At least one of the following primary contacts in Pittsburgh shall be notified:

<u>Name. Position</u>	<u>Work Phone</u>	<u>Home Phone</u>
Traci Self, Mgr. Environmental Compliance	412/227-2883	
Mike Juba, Mgr. Health & Safety	412/227-2882	
Randy Collins, Mgr. Loss Control	412/227-2456	

4.5.3 WHAT SPILLS ARE REPORTABLE?

For hazardous materials, Reportable Quantities (RQ) are specified by the EPA. Additional requirements may be set by some states. The Federal Quantities are:

Creosote	1 pound
Benzo (A) Pyrene	163 lbs. of solid pitch or 15 gal. of liquid pitch
Dibenzo (A,H)Anthracene	163 lbs. of solid pitch or 15 gal. of liquid pitch.

The Clean Water Act also has reporting requirements. Generally if "oil" is released to or presents the potential to be released to navigable waters in amounts that result in a sheen on or discoloration of the water or adjoining shorelines, cause a sludge or emulsion to be deposited beneath the surface of the water or upon the adjoining shorelines, or violates an applicable water quality standard, then it is reportable and the National Response Center must be notified.

Gasoline, lubricating oils, and transmission fluid are all regulated as "oil." Unless released as above, reporting is not mandatory.

4.5.4 IF IN DOUBT, REPORT!

If a spill is large enough to require cleanup action but is not reportable, it generally is a good practice to make a courtesy report to the local agency contact. It shows that we are on top of the problem and provide valuable documentation of our response in case of a report by a third party. The attached written report form should also be completed and submitted internally.

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Form 4.5.5
EMERGENCY AND/OR HAZARDOUS MATERIALS
INCIDENT REPORT

OWNER/OPERATOR: Koppers Industries, Inc.
Plant Name: Portland Plant
Street Addr: 7540 N.W. Saint Helens Road.
City, St., ZIP: Portland, Or. 97210-3663
Phone: 503-286-3681
EPA ID #: ORD 027734359

FACILITY: Same as above

DATE OF INCIDENT: _____ TIME OF INCIDENT: _____

TYPE OF INCIDENT: Fire, Explosion, Hazardous Material Spill,
(Circle One) Hazardous Waste Spill, Injury Accident

Other: _____

MATERIALS INVOLVED:

<u>Name</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

EXTENT OF INJURIES, IF ANY:

DISPOSITION OF RECOVERED MATERIAL:

<u>Material</u>	<u>Quantity</u>	<u>How Disposed or Stored</u>
_____	_____	_____
_____	_____	_____

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Form 4.5.5
EMERGENCY AND/OR HAZARDOUS MATERIALS
INCIDENT REPORT

NOTIFICATION LOG:

<u>Agency</u>	<u>Phone No.</u>	<u>Name of Person</u>	<u>Date/Time Notified</u>
Portland Fire Dept.	911	_____	_____
Oregon Emergency Management 1-800-452-0311		_____	_____
National Response Center 1-800-424-8802		_____	_____
Oregon OSHA 229-5910		_____	_____
City Duty Officer 823-7180 (For Storm, Sewer, Drain Contamination, only)		_____	_____
Northwest Natural Gas 224-3532		_____	_____
Wacker Siltronic 243-2020		_____	_____
Security for FAB #1 Ext. 7420		_____	_____
Security for FAB #2 Ext. 4300		_____	_____
Pacific Northern Fuels 286-9621		_____	_____

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Form 4..5.5
EMERGENCY AND/OR HAZARDOUS MATERIALS
INCIDENT REPORT

Manager of Environmental Compliance, Traci Self,

Office 412-227-2883
Home: 412-231-0246

ADDITIONAL DESCRIPTION OF INCIDENT AND ACTIONS TAKEN (Attach page if needed):

REPORT BY (Name):	_____	DATE	_____
REPORT REVISED:	_____	DATE	_____
REPORT REVISED:	_____	DATE	_____

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Table 4.5.5
EMERGENCY AND/OR HAZARDOUS MATERIALS
INCIDENT REPORT

SUPPLEMENTAL INFORMATION REPORT

(This part of report is intended for KII internal use only.)

CLEARLY DESCRIBE HOW INCIDENT OCCURRED:

WHAT ACTS OR CONDITIONS MOST DIRECTLY CAUSED THE INCIDENT:

DESCRIBE ANY RESIDUAL CONTAMINATION OR IMPACT:

ATTACH PHOTOGRAPHS WHICH SHOW INCIDENT AREA, BEFORE AND AFTER RESPONSE ACTIONS. MARK DATE OF PHOTOS. ATTACH ADDITIONAL SHEETS AS NEEDED TO DESCRIBE INCIDENT AND RESPONSE ACTIONS.

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4.6 Available Equipment

The following equipment is available at the plant:

<u>EQUIPMENT</u>	<u>STORAGE LOCATION</u>
Front-end Hydraulic payloaders	Shop area
1 Pickup Truck	Office parking lot
Sorbent Pads and Booms	Various Emergency Response Cabinets
Lift Trucks	Shop Area
Portable Pump	Shop Area

The above equipment can be effectively used to control and clean a spill of oil, hazardous material, or hazardous waste. Trucks and tractors can be used to transport and place soil for containment dams, sorbent to soak up spilled liquid, and contaminated soil from cleanup actions. Pumps can be used to pump spilled liquid back into containments. After response action is complete, equipment should be placed on the drip pad or vehicle wash pad and be decontaminated with the steam cleaner prior to being released from the response.

4.7 Emergency Response Contract Service

Koppers has entered into a Corporate Agreement with O.H. Materials Corporation to provide various environmental services in the event of an emergency. O.H. Materials has subcontracted this service in the Portland area to Foss Environmental Services, they can be reached at their local number 283-1150, all 24 hours a day.

4.8 Fire and Disaster Response Plans

4.8.1 This section of the Plan provides additional information on specific response actions to be taken in the event of a major disaster, emergency, or other disruption. Such an event could include:

- Fire or explosion
- Earthquake
- Strike or civil strife.

4.8.2 Fire or Explosion

Fire disasters can occur anywhere in the plant environment, so all employees should be knowledgeable as to the proper method for handling all types of fires, and where the largest potential risk areas are located. Communications with and between plant employees is vital to a safe and effective response.

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4.8.3 Designated Response Stations

In the case of a disaster or other major incident, employees shall secure their work areas and processes and then report to the General Foreman and/or Plant Manager, at the main office, if they are not directly involved in Emergency Response.

Plant Office Employees stay at office. Coordinate outside calls, inquiries, and media contacts.

4.8.4 Evacuation

The need for evacuation shall be signalled by a message over the radio to all employees. Employees shall follow the safest path to meet and check in at the closest location outside the property fence, that is considered to be a safe area.

Supervisors shall account for all of their employees, notify the EC when they are "all clear" and relay further instructions. An alternate location will be designated and announced at the time of the incident if the Main office is not a safe check-in location.

4.8.5 Fire Suppression Systems

Fire Hose and Hose Reels are located at strategic points around the plant. Employees must be familiar with ones within their work areas.

Fire Extinguishers are located throughout the plant and on rolling stock. CO-2 and ABC Dry Chemical types are used exclusively.

4.8.6 Civil Strife, Strike

Emergencies resulting from, or shutdowns as a result of, civil strife or strike situations require the control of people entering the plant, both authorized and unauthorized. Local law enforcement agencies can be helpful in achieving this goal, but in-plant security is management's immediate concern. When a total shutdown is planned, and security measures are to be implemented, the following should be observed.

Boiler

- Secure door locks.
- Follow established shutdown procedure.
- Assure that all steam line drains are open.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

Hazardous Waste Storage Facility

- Properly store all hazardous waste drums in facility.
- Lock doors.

Major Operations

- Secure electrical panels.
- Turn off air compressors, shut valves.
- Store and secure portable tools, cords, hoses, etc.
- Clean up area for safety and fire protection.

Rolling Stock

- Park centrally in area in front of shop.

Gates

- Keep locked at all times.
- Put on new locks to prevent unauthorized entry.

Security Patrols

- Security patrols will be made 24 hours per day.
- Communication will be maintained at all times between the patrols and the main office by radio.

Lighting

The plant has general yard lighting system consisting of flood lights, street lights and incandescent lighting. Outdoor lighting in front of the main office is controlled by photo cells.

4.9 Medical Emergency Plans

Emergency and first aid supplies are maintained at the following work locations:

Main Office (Main supply center)
Control Room (Intermediate supply location)
Maintenance Shop (Intermediate supply location)

First aid supplies are intended for use on minor cuts, abrasions, and burns requiring simple care such as band-aids, disinfectant, or ointment. Supplies are also available for the immediate treatment of severe injuries while awaiting professional medical care, such as gauze pads, bandages, and splints.

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First aid applied at the plant by plant employees is in no way intended to replace any needed medical attention, but only to help prior to receiving professional treatment.

If a serious injury occurs, assure that an ambulance is called immediately.

5.0 STORM WATER POLLUTION PREVENTION PLAN

5.1 General

This section of the Plan describes the pollution prevention procedures and facilities for this plant to minimize the impact of storm water runoff to the surrounding environment. This section specifically addresses the requirements of our Storm Water Industrial NPDES Permit.

5.2 Pollution Prevention Objectives and Process

All boiler blowdown water and stormwater runoff is collected in our tank farm and is handled under the terms and conditions of our NPDES permit. No discharges are made unless they meet these terms and conditions.

6.0 TRAINING

All plant employees shall receive training on the content of this plan. Supervisors will each receive a copy and become thoroughly familiar with it through training, discussion, and self study. Supervisors will train their employees in the overall plan and in the specific needs of their work areas.

Training will, at a minimum, include programs to ensure that facility personnel understand basic procedures for pollution prevention and good housekeeping and are able to respond effectively to emergencies by familiarizing them with emergency procedures, emergency equipment, and emergency systems, including, as applicable to each employee's job function:

- * Procedures for using, inspecting, repairing, and replacing facility emergency and monitoring equipment;
- * Communications and alarm systems;
- * Response to fires or explosions;

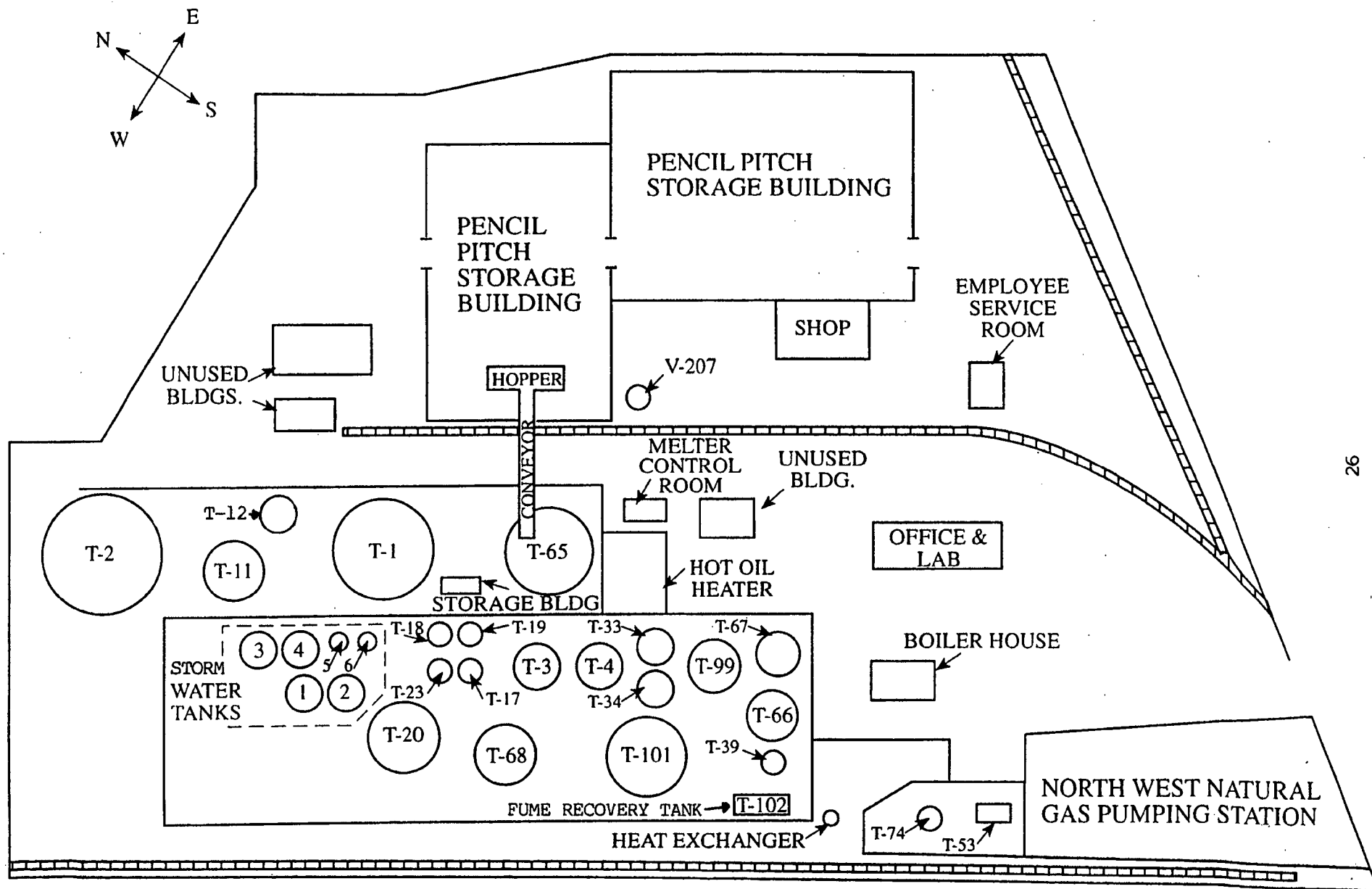
SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

- * Response to ground-water or surface water contamination incidents;
- * Shutdown of operations;
- * Methods for the safe handling of hazardous materials;
- * Procedures for coordination with local emergency response organizations;
- * Use and location of medical supplies;
- * Use of emergency response equipment and supplies appropriate to work areas;
- * Emergency response procedures and plans contained within this SPCC and Contingency Plan.

Refresher training will be provided at least annually. New employees will not work in unsupervised positions until they have completed all training required for those positions. Supervisors will provide training to their employees and management will assure that supervisors are properly trained.

Employees with specific additional job related training needs will also be given that training, such as hazardous waste handling training as required by RCRA and State regulations, hazardous waste operating procedures for fuel additive to the boiler, storm water pollution prevention, and waste water operations.

This training may be coordinated and take place concurrent with Hazard Communication and RCRA training, safety meetings, and annual updates.



CONTINGENCY, SPCC, AND
POLLUTION PREVENTION PLAN


KOPPERS INDUSTRIES, INC.
PORTLAND PLANT
PORTLAND, OR

REVISED 3/17/97

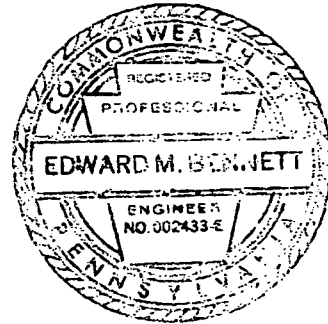
CONTINGENCY PLAN,
SPILL PREVENTION, CONTROL
AND COUNTERMEASURES (SPCC) PLAN
AND
STORM WATER POLLUTION PREVENTION PLAN
KOPPERS INDUSTRIES, INC.
PORTLAND PLANT
PORTLAND, OR
December 7, 1994

CERTIFICATION

I hereby certify that I have inspected the subject facility, and being familiar with the provisions of 40 CFR 112 for SPCC requirements and 40 CFR 122 for Storm Water Pollution Prevention requirements, attest that this Plan has been prepared in accordance with good engineering practices.


Edward M. Bennett
Tar Products Engineer
PENNA. #002433E

Date: 12/20/94



MANAGEMENT APPROVAL

This SPCC Plan will be implemented as herein described.


Amos S. Kamerer
Plant Manager

Needs to be
Re-certified
every 3 years
12/20/97

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1.0 INTRODUCTION

This plan has been developed to; a) provide a basis for planning for and responding to potential spills, accidents, fires, or other contingencies and b) describe and implement practices to minimize and control pollutants in storm water discharges and ensure discharge permit compliance. It includes the requirements for the Contingency Plan as required by the Resources Conservation and Recovery Act (RCRA), the Spill Prevention, Control, and Countermeasures (SPCC) Plan and Storm Water Pollution Prevention Plan (SWPPP) of the Clean Water Act, and the inventory reporting requirements of the Emergency Planning and Community Right-to-Know Act (SARA Title III).

Questions concerning this plan may be directed to:

Amos S. Kameron	Plant Manager	(503) 286-3681
T.J. Turner	General Foreman	(503) 286-3681

1.1 FACILITY LOCATION

The Portland plant is located in Multnomah county in the city of Portland, OR. The terminal is located on approximately 6.4 acres of leased property. The property owner is the Northwest Gas company, 220 NW 2nd Ave., Portland, OR, 97209. The portion of the property that Koppers Industries leases is addressed as 7540 N.W. St. Helens Rd., Portland OR, 97210. The property is bounded by St. Helens Rd (Oregon State Highway 30) on the south, the Northwest Natural Gas Company property extending to the shore of the Willamette River on the North, The Northwest Gas Company liquified Natural Gas Plant on the west. A service road separates Koppers property from Wacker Siltronic Corporation, on the eastern boundary. Approximately 10 people are employed at the terminal (4 salaried people, 6 hourly people). Normal operating hours are 4:00 p.m. to 4:30 p.m., Sunday through Friday. Generally, the plant is closed on the weekends.

1.2 OPERATION

Coal tar pitch and other related products are shipped into the terminal from our four domestic production plants via tank cars or are imported via bulk cargo ships. These products are then stored or further remanufactured at the terminal, prior to the distribution to our customers. Outbound shipments are then made via tank truck or tank cars.

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All products and/or chemicals used or handled through the terminal are covered by material safety data sheets which are on file. All employees have been trained on the usage of these materials and educated in the proper manner of reading and understanding of the material safety data sheets. This training is mandatory and retraining is given annually.

1.3 COORDINATED EMERGENCY SERVICES

This plan is written to facilitate the quick and efficient coordination of emergency response actions between Koppers Industries Inc. (Koppers) and any emergency response companies or agencies which may be needed. Copies of this plan, and updates, are provided to the following:

- U. S. EPA Region X
- Oregon Department of Environmental Quality
- Portland Fire Department
- Plant Supervisors
- City of Portland, Environmental Services Dept.

Instructions on how and when to obtain assistance for emergency situations, including agency and contractor phone numbers, are included in section 4 of this plan.

1.4 SPCC AND SWPPP PLAN MAINTENANCE

This Plan must be kept up to date. Notify Koppers' Environmental Program Manager in the event of any change made. Automatic review, evaluation and recertification by a Professional Engineer is required once every three years from the date of the latest certification. This Plan must also be amended whenever there is a change in design, construction, operation or maintenance which materially affects the facility's potential for discharge, and the amendment fully implemented as soon as possible and no later than within six months.

A copy of this Plan is to be maintained in the plant's main office and the plant's melter control room.

Notify the Environmental Program Manager if any amendment needs to be made to this Plan.

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2.0 INVENTORY OF OIL AND HAZARDOUS MATERIALS

2.1 Discussion

Various materials are used at the Koppers facility which are considered hazardous based on the toxicity or flammability of the materials. These include preservatives which are used in the industrial processes to pressure treat wood products, unusable waste products from these processes, boiler water treatment chemicals, and fuel and lubricants for plant vehicles and equipment.

2.2 Business Information and Identification

The following information applies to the Koppers Industries Portland Plant:

Business Name: Koppers Industries, Inc.
Business Phone: (503) 286-3681
Owner: Koppers Industries, Inc.
436 Seventh Ave.
Pittsburgh, PA 15219
Operator: Same as owner.
SIC Code: 2865
EPA ID Number: ORD 027734359
Site Address: 7540 N.W. St. Helens Rd.
Portland, OR 97210
Mail Address: same as above
Type of Business: Creosote, Refined Tars and Coal Tar Pitch
Terminal

2.3 Emergency Contacts/Emergency Coordinators

<u>Name/Address</u>	<u>Title</u>	<u>Home Phone</u>
Amos S. Kamerer 5912 S.W. Knights Bridge Dr. Portland, OR 97219	Plant Manager	[REDACTED] [REDACTED]
T.J. Turner 17815 N.E. 152nd Ave. Brush Prairie, WA 98606	General Foreman	[REDACTED] [REDACTED]

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

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SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

The above people can normally be reached during work hours at the business phone number, (503) 286-3681. Additionally, the night shift operator (when there is a night shift) can be reached at (503) 286-3681.

The plant manager is the Primary Emergency Coordinator and should be contacted first. If he is not available, the others should be called, in the order listed, until someone is reached. The Primary Emergency Coordinator and alternates have complete authority to commit all necessary resources of the company in the event of an emergency.

During off shifts, holidays, and weekends, the shift foreman will be the acting Emergency Coordinator. During these times, the shift foreman will notify the Emergency Coordinator, above, who will assume responsibility for implementation upon his arrival at the plant. Also on nights, weekends and holidays when there is no shift work occurring the plant is patrolled by N.W. Natural Gas guards who make rounds of the plant hourly. The guards have been provided a list of emergency phone numbers to call in case of a problem.

Phone numbers for Koppers Industries Corporate Contacts are provided on Page 14.

2.4 Hazardous Materials Inventory

The primary hazardous materials which are used or stored on the Koppers site are listed by tank in Table 3.7, Tank Listings Table (page 9). The tanks and facilities are shown on the site map by number or name.

3.0 SPILL PREVENTION, CONTROL, AND COUNTERMEASURES

3.1 Description

This section of the Plan provides information specific to the storage and handling of hazardous liquids, spill prevention and containment equipment, and countermeasures to be implemented to control the impact of a spill. The Tank Listings Table, Table 3.7, lists all the tanks used at the Koppers plant by number along with their name, contents, and capacity. Locations can be found for processes and tanks on the site map.

Top unloading

connect it



SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

3.2 Conformance with SPCC Standards and Guidelines

This facility meets the minimum requirements for diversionary structures and equipment to prevent discharged oil or hazardous substances from reaching navigable waters as required by 40 CFR 112.7(c) by providing secondary containment for all major tanks and process equipment.

The Portland plant is in conformance with the applicable guidelines of 40 CFR 112.7(e). Rainwater is collected, stored and then inspected prior to discharge. Tank installations are equipped with secondary containment and are regularly inspected by operators. The creosote tank car unloading station is top unloading. Spill prevention details for equipment and processes are discussed more fully below.

3.3 Inspections and Security

The operational areas in the plant are checked hourly by the operator on duty throughout each shift. The tank area is routinely checked by the operator on duty. Any problems or unusual circumstances which can not be immediately resolved are reported to the Supervisor.

3.4 General Plant Spill Prevention

A hazardous material spill can occur any place, any time. All employees must be prepared to respond immediately to control damage and to notify management. Containing a spill to the smallest area possible is the first step.

Containments can quickly be constructed using available equipment and supplies; usually by placing dirt, sand, or sawdust around the lower side of a spill with Koppers loaders. If possible, a spill should be prevented from reaching the surface water drainage, where it will spread more rapidly and have greater environmental and health impact.

Loading operations should be supervised by employees familiar with the equipment involved. Buckets or pans should be placed under hose connections to collect drips. Be prepared for hoses and pipes to be full and for liquid to be behind valves. Properly and promptly cleanup any drips or spills. Supervisors must be notified of any spills which are outside of containments. Oil, creosote, and other hazardous material deliveries are made by vehicles complying with DOT spill control regulations. Unloading is supervised by plant operators.

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2
systems. Collection pans should first be readily available. Collected material must be returned to the processes or be properly containerized for disposal.

3.5 Surface Drainage

The plant property is at 37' above sea level and our outfall for pumping off the collected storm runoff is located on the very south eastern tip of the property approximately 10' ft. elevation above a creek that flows to the Willamette River.

In the Portland terminal there are two run-off patterns for site drainage. The first is directly in front of the office and away from any creosote, tar handling or process area. This area would not be threatened by a spill. All other run-off channels from the tank farm, into a concrete storm run-off sump. Dual sump pumps (one operating and one standby) lift the run-off into the waste water storage tanks #1, #2, #3, #4, #5 and #6. When these tanks fill they are sampled and the samples are taken to an Oregon Department of Environmental Quality approved laboratory for analysis. Then, in accordance with the rules governing our N.P.D.E.S. permit, the samples are checked for temperature, P.H., oil and grease content and phenol content. When the laboratory reports the results and it is certified that the water in the waste water tanks is within the parameters allowed in the N.P.D.E.S. permit, the water is pumped to the out-fall and into the creek that flows into the Willamette River.

Equipment, including secondary spill containment, has been installed and procedures implemented to prevent oil or hazardous materials from leaving the plant. A spill is most likely to occur in the process area and if not contained, would drain into the ditch.

Koppers has installed extensive paving at the heat exchanger location including paving between the rail tracks and the loading area for trucks. In addition, a below grade sealed concrete sump was installed as a catch basin. This catch basin has approximately 1500 gallon capacity. Also two sump pumps have been installed. The first pump, manually activated, pumps collected storm water to the storm water runoff collection system for further handling.

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The second pump is energized only when we are unloading creosote rail cars. This pump is on a float activated switch and is piped to #39 tank, which is now designated as the emergency response tank at this location. Tank #39 is of sufficient capacity to hold the gallonage of a full tank car if needed, 20,000 gallons. It is the duty of the loading/unloading employee to clear the catch basin of water, then open the valve to 39 tank and energize the automatic pump. In this way, should a creosote spill occur, all precautions are in place to contain the release.

In the case of a spill in which hazardous materials or oils reach either of the drainage ditches, immediate action must be taken to contain the spill. Temporary earth dams should be constructed using plant equipment along the ditches, creating a series of impoundments to contain the flow. Sorbent booms may be used to remove containments from the water held behind the dams, if needed.

These dams can only hold back a limited amount of water, so emergency help should be contacted at the first sign that such a spill has occurred or may occur.

3.6 Tank Car and Truck Unloading

Tank cars are unloaded at the Unloading Station, where the process transfer pipelines are all above ground. The potential spill sources in this area include leaks from the process tanks, valves, pumps, and pipe systems. These leaks can best be prevented by proper valve and pump maintenance and equipment inspection during creosote transfers. Any leaks or drips must be cleaned up immediately.

As part of the operating procedures, drains and outlets on tank trucks and tank cars are checked for leakage before and after each loading and unloading operation. Operations personnel performing loading and unloading activities are instructed to inspect piping and pumps associated with these activities and to report spills or leakage.

The driver performs a visual inspection of the truck and trailer after each loading and prepares a Driver Vehicle Inspection Report which is filed and if repairs are needed the truck is shopped for repairs.

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The operating procedures included in this plan form the basis for the training of operations personnel in the prevention of creosote or coal tar discharge. Job positions within the Portland plant require that new personnel, working in unfamiliar process areas will have a senior experienced employee to guide them. Personnel are also instructed in the operation and maintenance of equipment to prevent discharges.

3.7 Tank Farm

All preservative tanks are in the concrete-wall-lined and earth-diked tank farm. Containment capacity of approximately 2,900,000 gallons is provided.

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Table 3.7
TANK LISTING TABLE
Koppers Industries, Portland Plant

<u>Tank No.</u>	<u>Contents</u>	<u>Size</u>	<u>Capacity (000)</u> (Gallons)
1.	Empty-out of service		660 M
2.	Not on lease		1065 M
3.	Methyl Solvent		99 M
4.	Lite Uncorrected Creosote		99 M
11.	Not on Lease		254 M
12.	Not on Lease		57 M
13.	Empty--Out of Service		20 M
17.	Heavy Oil Bottoms		20 M
18.	Empty--Out of Service		20 M
19.	Priming & Refractory Oil		20 M
20.	R.T. Creosote Bottoms		317 M
23.	Lite Unc. Bottoms		20 M
27.	Empty--Out of Service		20 M
33.	Heavy Oil--Pitch & Creosote		45 M
34.	N.S.R.		45 M
39.	P1/P13 Bottoms		20 M
53.	Empty-out of service		10 M
65.	Melter Pitch		761 M
66.	Empty-out of service		191 M
67.	Creosote		102 M
68.	Storage Pitch		245 M
74.	Empty-out of service		20 M
99.	Creosote Bottoms		209 M
101.	Empty-out of service		758 M
102.	Fume Tank		
WW #1	Water-Effluent		45 M
WW #2	Water-Effluent		45 M
WW #3	Water-Effluent		45 M
WW #4	Water-Effluent		45 M
WW #5	Water-Effluent		20 M
WW #6	Water-Effluent		20 M
V 207	Empty-out of service		

3.8 Fuel and Lubricating Oil

Lubricating oil is stored in 55-gallon drums, most of which are store in the oil house building. Drums should be stored upright and kept sealed. Dispensing areas should be kept clean. Oil drippage should be contained. Any minor spills should be cleaned up immediately.

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3.9 Hazardous Waste Storage Facilities

All hazardous waste that is in process is stored in drums in the rear storage area of the maintenance building. Once full, the drum or drums are disposed of through RCRA approved facilities.

4.0 EMERGENCY RESPONSE PROCEDURES

4.1 General

This section of the Plan describes the actions that are to be taken by Koppers personnel in response to any injury, accident, fire, explosion, or unplanned release of any hazardous material to the air, soil, or water.

4.2 Emergency Coordination

As soon as an emergency situation is discovered by an employee, that person shall quickly estimate the extent the problem, take safe and appropriate control action, and then notify the plant management immediately. Once notification list is Section 2.3, page 4, who is present will assume the responsibilities of Emergency Coordinator (EC). Other personnel will respond as a team under the direction of the E as needed based on the type of emergency, individual skills, and plant responsibilities.

The E has Koppers Industries' commitment to spill prevention and response and has the authority to commit plant employees and contract labor and equipment to response actions and to purchase needed supplies. The E is responsible for the appropriate implementation of this plan in an emergency.

Effective communication is vital in any emergency response. All plant employees have portable two-way radios which will be used for communication and coordination between the plant offices and yard areas. Phones may also be used between offices.

4.3 Immediate Response

As soon as an employee discovers an emergency situation, he shall quickly determine the extent of the problem. If a simple action can be taken to control a release or other emergency, such as shutting a valve to stop the flow from a ruptured pipe and can be done safely, then the control action should be completed first. If there is no simple, safe control action or after taking such action the person shall immediately notify the plant management and any other personnel who may be endangered by the incident by phone or radio.

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4.4 Response Procedures

4.4.1 Upon discovery or notification that an emergency exists, the EC, assisted by the management team, shall:

- Determine the extent of the emergency,
- Implement plant evacuation, if needed, to prevent injury,
- Call for outside assistance as needed,
- Start immediate control actions,
- Implement cleanup or other responses,
- Notify local, state, and federal agencies as required,
- Notify Koppers Pittsburgh office,
- Assure completion of cleanup,
- Provide for storage of cleanup material, inc. hazardous waste,
- Evaluate possible hazards to human health or environment,
- Make a final written incident report.

Many of these actions may occur concurrently.

4.4.2 Whenever there is an imminent or actual emergency situation, the emergency coordinator, or his designee, shall:

- Immediately call by radio or phone to notify all facility personnel;
- Immediately notify appropriate federal, state, and/or local agencies with designated response roles if their help is needed;
- Make other notifications as stated in Section 3.5, Emergency Notifications.

4.4.3 Whenever there is a release, fire, or explosion, the emergency coordinator shall immediately identify the character, exact source, amount, and area extent of any released materials. This may be done by observation or review of facility records or manifests and, if necessary, by chemical analysis. Form 4.1 should be used to document the information needed for notifications.

4.4.4 Concurrently, the Emergency Coordinator shall assess possible hazards to human health or the environment that may result from the release, fire, or explosion. This assessment shall consider both direct and indirect effects of the release, fire, or explosion (e.g., the effects of any toxic, irritating, or asphyxiating gases that are generated, or the effects of any hazardous surface water run-off from water or chemical agents used to control fire and heat-induced explosions).

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4.4.5 If the Emergency Coordinator determines that the facility has had a release, fire, or explosion which could threaten human health, or the environment, outside of the facility, or if the released amount of hazardous or extremely hazardous material exceeds the Reportable Quantity (RQ), the findings shall be immediately reported to the National Response Center as in Section 4.5, Emergency Notifications.

Note that the reportable quantities for materials are listed in Section 4.5.

If his assessment indicates that evacuation of local areas may be advisable, appropriate local authorities shall be notified immediately. The Emergency Coordinator shall be available to help appropriate officials decide whether local areas should be evacuated.

4.4.6 During an emergency, the Emergency Coordinator shall take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, recur, or spread to other hazardous wastes or materials at the plant. These measures could include turning water sprays onto tanks, stopping and isolating processes, shutting off power to areas, collecting and containing released materials, or moving and isolating other containers.

4.4.7 If some or all operations are stopped in response to an emergency, the emergency coordinator shall monitor tanks, pipes, valves, and other process equipment for leaks, pressure build-up or ruptures wherever appropriate.

4.4.8 Immediately after an emergency, the Emergency Coordinator shall provide for treating, storing, or disposing of recovered materials or wastes, contaminated soil, surface water, or any other material that results from a release, fire, or explosion.

4.4.9 Before resuming operations, the Emergency Coordinator shall:

a. Insure that clean-up is complete to the point that operations will not interfere or create further potential for hazardous waste release,

b. Insure that all emergency equipment is cleaned and fit for use, and

c. If hazardous wastes or a hazardous waste unit has been involved, then advise the Dept. of Environmental Quality and EPA Region X that Steps a. and b. above are complete.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

4.4.10 If hazardous wastes or a hazardous waste unit has been involved, the Emergency Coordinator shall submit a written report within 15 days of the incident to the Dept. of Environmental Quality. Form 4.1, completed, may fulfill this purpose or will at least provide a basis for the report. A copy of the completed report shall be maintained in the Operating Record.

4.5 Emergency Notifications

4.5.1 The emergency coordinator shall ensure that the necessary notifications are made. Form 4.1 entitled, "Emergency and/or Hazardous Materials Incident Report" is to be used. Page one is organized to provide all the information needed for the initial verbal notification of the National Response Center or other agencies. As soon as a spill or other incident is discovered, the supervisor/manager who will do the reporting should begin filling in the information.

Page 2 should be used as a log of notifications made. Get the position and name of the person who accepts the phone notifications. Also, if an incident number is assigned, as by the National Response Center, that number should be recorded. As more is learned about the incident, the report should be updated. Updates can be recorded on page 2 as well.

Pages 1 and 2, completed either by hand or typed, can be used for the required written notification of agencies. These should be sent with cover letters showing everyone who will get copies. Copies must be kept in the plant's Operating Record.

Finally, page 3 should be used for Koppers Industries internal reporting of additional related information. KII has an obligation to report all spills which could possibly impact over-all cleanup work. The complete report, Pages 1, 2, and 3 should be sent to W.E. Swearingen, Environmental Program Manager including original photographs. He will provide the required notification to Beazer East, Inc.

4.5.2 WHAT SPILLS OR INCIDENTS MUST BE REPORTED AND TO WHOM?

Following is a summary. Note that more than one category may apply.

If outside help is needed, IMMEDIATELY:

Call fire and/or other appropriate emergency agencies, describe incident and needed assistance, such as fire suppression, medical aid, evacuation, and/or crowd control.

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If release or threatened release of hazardous material,
IMMEDIATELY:

Call 911-for immediate help, then call both the Oregon Emergency Management Office at 1-800-452-0311 and the National Response Center at 1-800-424-8802. This report shall be made unless it is determined that the release poses no significant hazard to human health and safety, property, or the environment and is less than the reportable quantity for the material.

Such releases which cannot be recovered must also be included in the SARA Title III annual reports.

If health threat or release outside of facility: OR

If the release results in or has the potential to cause an oil sheen on or discoloration of runoff water; OR

If release of hazardous or extremely hazardous material exceeds the Title III Reportable Quantity, IMMEDIATELY:

All National Response Center at 800-424-8802.

If the release results in or has the potential to reach the City Storm or Sanitary Sewer drains, IMMEDIATELY:

Call the Duty Officer at 823-7180

If hazardous waste or a hazardous waste unit is involved OR if the plant contingency plan is implemented; IMMEDIATELY AND NOT LATER THAN 24 HOURS:

Call the Oregon Emergency Management Office at #1-800-452-0311
AND, Within 15 days

Submit a written report of the incident to them at:
595 Cottage Street, N.E.
Salem, Oregon 97310

If injuries result in 3 or more people being hospitalized or 1 or more person killed, IMMEDIATELY:

Call the U.S. Occupational Safety and Health Administration or authorized state OSHA agency **WITHIN 8 HOURS!**

In all cases, as soon as the emergency situation allows, Koppers management in Pittsburgh shall be called. Follow the guidance contained in "Internal Emergency Notification Procedures" for Koppers Industries, Inc. At least one of the following primary contacts in Pittsburgh shall be notified:

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<u>Name, Position</u>	<u>Work Phone</u>	<u>Home Phone</u>
Bill Swearingen, Program Manager	412/227-2883	
Mike Juba, Mgr. Health & Safety	412/227-2882	
Randy Collins, Mgr. Loss Control	412/227-2456	

4.5.3 WHAT SPILLS ARE REPORTABLE?

For hazardous materials, Reportable Quantities (RQ) are specified by the EPA. Additional requirements may be set by some states. The Federal Quantities are:

Creosote	1 pound
Benzo (A) Pyrene	163 lbs. of solid pitch or 15 gal. of liquid pitch
Dibenzo (A,H) Anthracene	163 lbs. of solid pitch or 15 gal. of liquid pitch.

The Clean Water Act also has reporting requirements. Generally if "oil" is released to or presents the potential to be released to navigable waters in amounts that result in a sheen on or discoloration of the water or adjoining shorelines, cause a sludge or emulsion to be deposited beneath the surface of the water or upon the adjoining shorelines, or violates an applicable water quality standard, then it is reportable and the National Response Center must be notified.

Gasoline, lubricating oils, and transmission fluid are all regulated as "oil. Unless released as above, reporting is not mandatory.

4.5.4 IF IN DOUBT, REPORT!

If a spill is large enough to require cleanup action but is not reportable, it generally is a good practice to make a courtesy report to the local agency contact. It shows that we are on top of the problem and provide valuable documentation of our response in case of a report by a third party. The attached written report form should also be completed and submitted internally.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

Page 1

Form 4.1
EMERGENCY AND/OR HAZARDOUS MATERIALS
INCIDENT REPORT

OWNER/OPERATOR: Koppers Industries, Inc.
Plant Name: Portland Plant
Street Addr: 7540 N.W. St. Helens
City, St, ZIP: Portland, OR 97210-3663
Phone: 503-286-3681
EPA ID #: ORD 027734359

FACILITY: Same as above

DATE OF INCIDENT: _____ TIME OF INCIDENT: _____

TYPE OF INCIDENT: Fire, Explosion, Hazardous Material Spill,
(Circle One) Hazardous Waste Spill, Injury Accident

Other: _____

MATERIALS INVOLVED:

<u>Name</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

EXTENT OF INJURIES, IF ANY:

ASSESSMENT OF ACTUAL OR POTENTIAL HAZARDS TO HUMAN HEALTH OR THE
ENVIRONMENT, WHERE APPLICABLE:

DISPOSITION OF RECOVERED MATERIAL:

<u>Material</u>	<u>Quantity</u>	<u>How Disposed or Stored</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

Page 2

Form 4.1
EMERGENCY AND/OR HAZARDOUS MATERIALS
INCIDENT REPORT

NOTIFICATION LOG:

<u>Agency</u>	<u>Phone No.</u>	<u>Name of Person</u>	<u>Date/Time Notified</u>
Portland Fire Dept.	911		
Oregon Emergency Management	1-800-452-0311		
National Response Center	1-800-424-8802		
Oregon OSHA	229-5910		
City Duty Officer	823-7180		
(For Storm, Sewer, Drain			
Contamination, only)			
Northwest Natural Gas	224-3532		
Wacker Siltronic	243-2020		
Security for FAB #1 Ext.	7420		
Security for FAB #2 Ext.	4300		
Pacific Northern Fuels	286-9621		

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

Page 2a

Form 4.1
EMERGENCY AND/OR HAZARDOUS MATERIALS
INCIDENT REPORT

Environmental Program

Manager - KII 412-227-2883 Bill Swearingen _____
or Home: 304-737-0627

ADDITIONAL DESCRIPTION OF INCIDENT AND ACTIONS TAKEN (Attach page if needed):

REPORT BY (Name):	_____	DATE	_____
REPORT REVISED:	_____	DATE	_____
REPORT REVISED:	_____	DATE	_____

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

Page 3

Table 4.1
EMERGENCY AND/OR HAZARDOUS MATERIALS
INCIDENT REPORT

SUPPLEMENTAL INFORMATION REPORT

(This part of report is intended for KII internal use only.)

CLEARLY DESCRIBE HOW INCIDENT OCCURRED:

WHAT ACTS OR CONDITIONS MOST DIRECTLY CAUSED THE INCIDENT:

DESCRIBE ANY RESIDUAL CONTAMINATION OR IMPACT:

ATTACH PHOTOGRAPHS WHICH SHOW INCIDENT AREA, BEFORE AND AFTER RESPONSE ACTIONS. MARK DATE OF PHOTOS. ATTACH ADDITIONAL SHEETS AS NEEDED TO DESCRIBE INCIDENT AND RESPONSE ACTIONS.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

4.6 Available Equipment

The following equipment is available at the plant:

- Front-end Hydraulic payloaders
- 1 Pickup Truck
- Sawdust and sorbents
- Lift Trucks
- Portable Pump

The above equipment can be effectively used to control and clean a spill of oil, hazardous material, or hazardous waste. Trucks and tractors can be used to transport and place soil for containment dams, sorbent to soak up spilled liquid, and contaminated soil from cleanup actions. Pumps can be used to pump spilled liquid back into containments. After response action is complete, equipment should be placed on the drip pad or vehicle wash pad and be decontaminated with the steam cleaner prior to being released from the response.

4.7 Emergency Response Contract Service

Koppers has entered into a Corporate Agreement with O.H. Materials Corporation to provide various environmental services in the event of an emergency. O.H. Materials has subcontracted this service in the Portland area to Foss Environmental Services, they can be reached at their local number 283-1150, all 24 hours a day.

4.8 Fire and Disaster Response Plans

4.8.1 This section of the Plan provides additional information on specific response actions to be taken in the event of a major disaster, emergency, or other disruption. Such an event could include:

- Fire or explosion
- Earthquake
- Strike or civil strife.

4.8.2 Fire or Explosion

Fire disasters can occur anywhere in the plant environment, so all employees should be knowledgeable as to the proper method for handling all types of fires, and where the largest potential risk areas are located. Communications with and between plant employees is vital to a safe and effective response.

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4.8.3 Designated Response Stations

In the case of a disaster or other major incident, employees shall secure their work areas and processes and then report to the General Foreman and/or Plant Manager, if they are not directly involved in Emergency Response.

Plant Office Employees stay at office. Coordinate outside calls, inquires, and media contacts.

4.8.4 Evacuation

The need for evacuation shall be signalled by a message over the radio to all employees. Employees shall follow the safest path to meet and check in at the closest location outside the property fence, that is considered to be a safe area.

Supervisors shall account for all of their employees, notify the main office when they are "all clear" and relay further instructions. An alternate location will be designated and announced at the time of the incident if the service building is not a safe check-in location.

4.8.5 Fire Suppression Systems

Fire Hose and Hose Reels are located at strategic points around the plant. Employees must be familiar with ones within their work areas.

Fire Extinguishers are located throughout the plant and on rolling stock. CO-2 and ABC Dry Chemical types are used exclusively.

4.8.6 Civil Strife, Strike

Emergencies resulting from, or shutdowns as a result of, civil strife or strike situations require the control of people entering the plant, both authorized and unauthorized. Local law enforcement agencies can be helpful in achieving this goal, but in-plant security is management's immediate concern. When a total shutdown is planned, and security measures are to be implemented, the following should be observed.

Boiler

- Secure door locks.
- Follow established shutdown procedure.
- Assure that all steam line drains are open.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

Hazardous Waste Storage Facility

- Properly store all hazardous waste drums in facility.
- Lock doors.

Major Operations

- Secure electrical panels.
- Turn off air compressors, shut valves.
- Store and secure portable tools, cords, hoses, etc.
- Clean up area for safety and fire protection.

Rolling Stock

- Park centrally in area in front of shop.

Gates

- Keep locked at all times.
- Put on new locks to prevent unauthorized entry.

Access Roads

- Blockade with ties or lumber.

Security Patrols

- At least 2 persons will provide security patrols on shifts, 24 hours per day.
- Plant vehicles will be provided
- Communication will be maintained at all times between the patrols and the main office by radio.

Lighting

The plant has general yard lighting system consisting of flood lights, street lights and incandescent lighting. Outdoor lighting is controlled by timers of photo cells.

4.9 Medical Emergency Plans

Emergency and first aid supplies are maintained at the following work locations:

Control Room
Maintenance Shop
Main Office (Main supply center)

First aid supplies are intended for use on minor cuts, abrasions, and burns requiring simple care such as band-aids, disinfectant, or ointment. Supplies are also available for the immediate treatment of severe injuries while awaiting professional medical care, such as gauze pads, bandages, and splints.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

First aid applied at the plant by plant employees is in no way intended to replace any needed medical attention, but only to help prior to receiving professional treatment.

If a serious injury occurs, assure that an ambulance is called immediately.

5.0 STORM WATER POLLUTION PREVENTION PLAN

5.1 General

This section of the Plan describes the pollution prevention procedures and facilities for this plant to minimize the impact of storm water runoff to the surrounding environment. This section specifically addresses the requirements of the Storm Water General NPDES Permit.

5.2 Pollution Prevention Objectives and Process

All boiler blowdown water and stormwater runoff is collected in our tank farm and is handled under the terms and conditions of our NPDES permit. No discharges are made unless they meet these terms and conditions.

6.0 TRAINING

All plant employees shall receive training on the content of this plan. Supervisors will each receive a copy and become thoroughly familiar with it through training, discussion, and self study. Supervisors will train their employees in the overall plan and in the specific needs of their work areas.

Training will, at a minimum, include programs to ensure that facility personnel understand basic procedures for pollution prevention and good housekeeping and are able to respond effectively to emergencies by familiarizing them with emergency procedures, emergency equipment, and emergency systems, including, as applicable to each employee's job function:

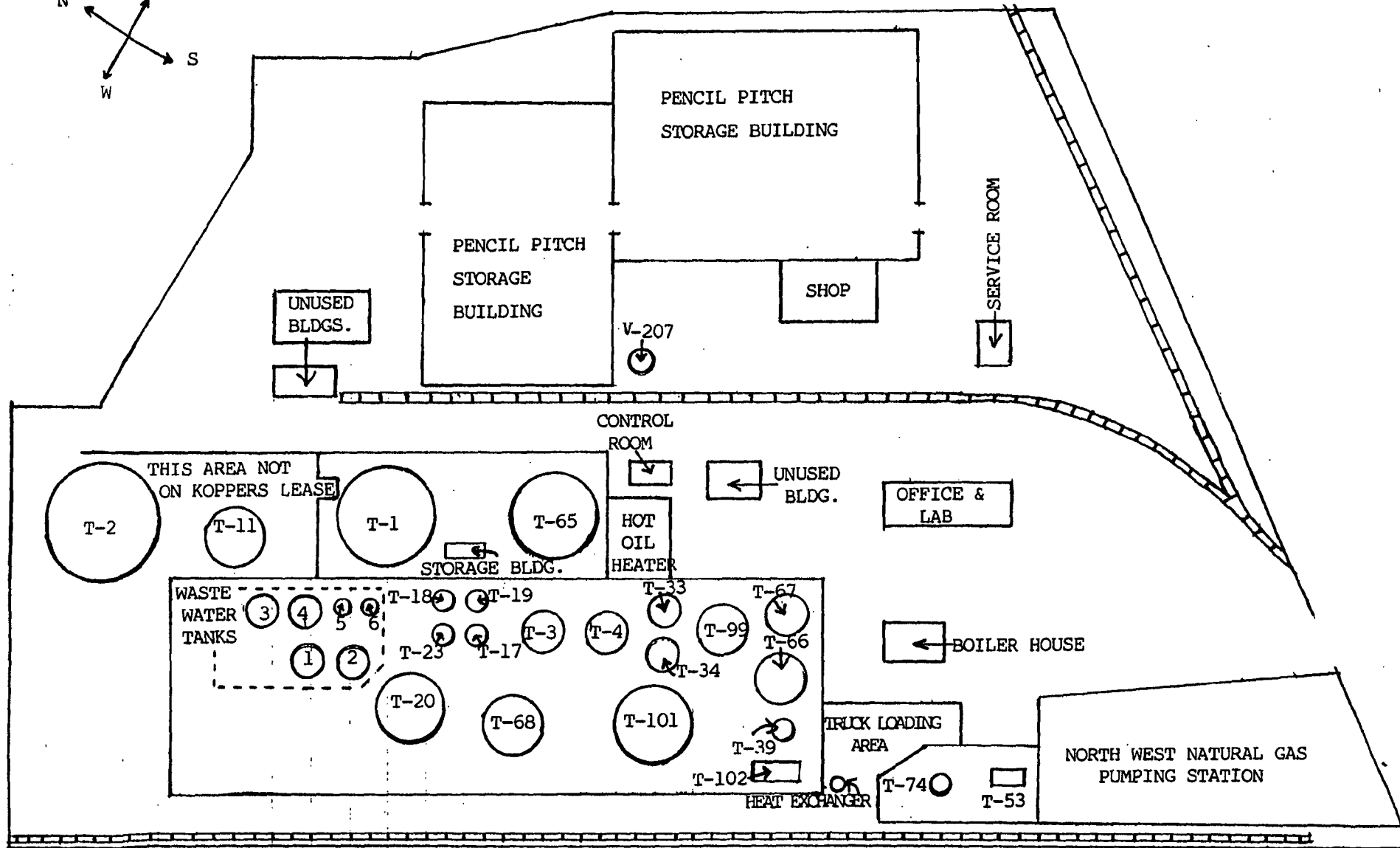
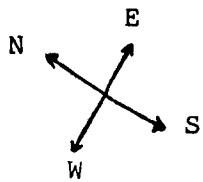
- * Procedures for using, inspecting, repairing, and replacing facility emergency and monitoring equipment;
- * Communications and alarm systems;
- * Response to fires or explosions;
- * Response to ground-water or surface water contamination incidents;

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

- * Shutdown of operations;
- * Methods for the safe handling of hazardous materials;
- * Procedures for coordination with local emergency response organizations;
- * Use and location of medical supplies;
- * Use of emergency response equipment and supplies appropriate to work areas; and
- * Emergency response procedures and plans contained within this SPCC and Contingency Plan. Refresher training will be provided at least annually. New employees will not work in unsupervised positions until they have completed all training required for those positions. Supervisors will provide training to their employees and management will assure that supervisors are properly trained.

Employees with specific additional job related training needs will also be given that training, such as hazardous waste handling training as required by RCRA and State regulations, hazardous waste operating procedures for fuel additive to the boiler, storm water pollution prevention, and waste water operations.

This training may be coordinated and take place concurrent with Hazard Communication and RCRA training, safety meetings, and annual updates.



SITE PLAN

KOPPERS INDUSTRIES INC., PORTLAND, OREGON

12/95

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Koppers003358


CONTINGENCY, SPCC, AND
POLLUTION PREVENTION PLAN

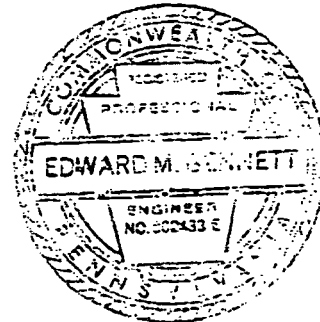
KOPPERS INDUSTRIES, INC.
PORTLAND PLANT
PORTLAND, OR

CONTINGENCY PLAN,
SPILL PREVENTION, CONTROL
AND COUNTERMEASURES (SPCC) PLAN
AND
STORM WATER POLLUTION PREVENTION PLAN
KOPPERS INDUSTRIES, INC.
PORTLAND PLANT
PORTLAND, OR
December 7, 1994

CERTIFICATION

I hereby certify that I have inspected the subject facility, and being familiar with the provisions of 40 CFR 112 for SPCC requirements and 40 CFR 122 for Storm Water Pollution Prevention requirements, attest that this Plan has been prepared in accordance with good engineering practices.


Edward M. Bennett
Tar Products Engineer
PENNA. #002433E



Date: 12/20/94

MANAGEMENT APPROVAL

This SPCC Plan will be implemented as herein described.



Amos S. Kamerer
Plant Manager

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SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

1.0 INTRODUCTION

This plan has been developed to; a) provide a basis for planning for and responding to potential spills, accidents, fires, or other contingencies and b) describe and implement practices to minimize and control pollutants in storm water discharges and ensure discharge permit compliance. It includes the requirements for the Contingency Plan as required by the Resources Conservation and Recovery Act (RCRA), the Spill Prevention, Control, and Countermeasures (SPCC) Plan and Storm Water Pollution Prevention Plan (SWPPP) of the Clean Water Act, and the inventory reporting requirements of the Emergency Planning and Community Right-to-Know Act (SARA Title III).

Questions concerning this plan may be directed to:

Amos S. Kamerer	Plant Manager	(503) 286-3681
T.J. Turner	General Foreman	(503) 286-3681

1.1 FACILITY LOCATION

The Portland plant is located in Multnomah county in the city of Portland, OR. The terminal is located on approximately 6.4 acres of leased property. The property owner is the Northwest Gas company, 220 NW 2nd Ave., Portland, OR, 97209. The portion of the property that Koppers Industries leases is addressed as 7540 N.W. St. Helens Rd., Portland OR, 97210. The property is bounded by St. Helens Rd (Oregon State Highway 30) on the south, the Northwest Natural Gas Company property extending to the shore of the Willamette River on the North, The Northwest Gas Company liquified Natural Gas Plant on the west. A service road separates Koppers property from Wacker Siltronic Corporation, on the eastern boundary. Approximately 10 people are employed at the terminal (4 salaried people, 6 hourly people). Normal operating hours are 4:00 p.m. to 4:30 p.m., Sunday through Friday. Generally, the plant is closed on the weekends.

1.2 OPERATION

Coal tar pitch and other related products are shipped into the terminal from our four domestic production plants via tank cars or are imported via bulk cargo ships. These products are then stored or further remanufactured at the terminal, prior to the distribution to our customers. Outbound shipments are then made via tank truck or tank cars.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

All products and/or chemicals used or handled through the terminal are covered by material safety data sheets which are on file. All employees have been trained on the usage of these materials and educated in the proper manner of reading and understanding of the material safety data sheets. This training is mandatory and retraining is given annually.

1.3 COORDINATED EMERGENCY SERVICES

This plan is written to facilitate the quick and efficient coordination of emergency response actions between Koppers Industries Inc. (Koppers) and any emergency response companies or agencies which may be needed. Copies of this plan, and updates, are provided to the following:

- U. S. EPA Region X
- Oregon Department of Environmental Quality
- Portland Fire Department
- Plant Supervisors
- City of Portland, Environmental Services Dept.

Instructions on how and when to obtain assistance for emergency situations, including agency and contractor phone numbers, are included in section 4 of this plan.

1.4 SPCC AND SWPPP PLAN MAINTENANCE

This Plan must be kept up to date. Notify Koppers' Environmental Program Manager in the event of any change made. Automatic review, evaluation and recertification by a Professional Engineer is required once every three years from the date of the latest certification. This Plan must also be amended whenever there is a change in design, construction, operation or maintenance which materially affects the facility's potential for discharge, and the amendment fully implemented as soon as possible and no later than within six months.

A copy of this Plan is to be maintained in the plant's main office and the plant's melter control room.

Notify the Environmental Program Manager if any amendment needs to be made to this Plan.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

2.0 INVENTORY OF OIL AND HAZARDOUS MATERIALS

2.1 Discussion

Various materials are used at the Koppers facility which are considered hazardous based on the toxicity or flammability of the materials. These include preservatives which are used in the industrial processes to pressure treat wood products, unusable waste products from these processes, boiler water treatment chemicals, and fuel and lubricants for plant vehicles and equipment.

2.2 Business Information and Identification

The following information applies to the Koppers Industries Portland Plant:

Business Name:	Koppers Industries, Inc.
Business Phone:	(503) 286-3681
Owner:	Koppers Industries, Inc. 436 Seventh Ave. Pittsburgh, PA 15219
Operator:	Same as owner.
SIC Code:	2865
EPA ID Number:	ORD 027734359
Site Address:	7540 N.W. St. Helens Rd. Portland, OR 97210
Mail Address:	same as above
Type of Business:	Creosote, Refined Tars and Coal Tar Pitch Terminal

2.3 Emergency Contacts/Emergency Coordinators

<u>Name/Address</u>	<u>Title</u>	<u>Home Phone</u>
---------------------	--------------	-------------------

Amos S. Kameroner 5912 S.W. Knights Bridge Dr. Portland, OR 97219	Plant Manager	[REDACTED] [REDACTED]
--	---------------	-----------------------

T.J. Turner 17815 N.E. 152nd Ave. Brush Prairie, WA 98606	General Foreman	[REDACTED] [REDACTED]
--	-----------------	-----------------------

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

2.0 INVENTORY OF OIL AND HAZARDOUS MATERIALS

2.1 Discussion

Various materials are used at the Koppers facility which are considered hazardous based on the toxicity or flammability of the materials. These include preservatives which are used in the industrial processes to pressure treat wood products, unusable waste products from these processes, boiler water treatment chemicals, and fuel and lubricants for plant vehicles and equipment.

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The following information applies to the Koppers Industries Portland Plant:

Business Name: Koppers Industries, Inc.
Business Phone: (503) 286-3681
Owner: Koppers Industries, Inc.
436 Seventh Ave.
Pittsburgh, PA 15219
Operator: Same as owner.
SIC Code: 2865
EPA ID Number: ORD 027734359
Site Address: 7540 N.W. St. Helens Rd.
Portland, OR 97210
Mail Address: same as above
Type of Business: Creosote, Refined Tars and Coal Tar
Pitch Terminal

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Amos S. Kamerer 5912 S.W. Knights Bridge Dr. Portland, OR 97219	Plant Manager	[REDACTED] [REDACTED]
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T.J. Turner 17815 N.E. 152nd Ave. Brush Prairie, WA 98606	General Foreman	[REDACTED] [REDACTED]
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SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

The above people can normally be reached during work hours at the business phone number, (503) 286-3681. Additionally, the night shift operator (when there is a night shift) can be reached at (503) 286-3681.

The plant manager is the Primary Emergency Coordinator and should be contacted first. If he is not available, the others should be called, in the order listed, until someone is reached. The Primary Emergency Coordinator and alternates have complete authority to commit all necessary resources of the company in the event of an emergency.

During off shifts, holidays, and weekends, the shift foreman will be the acting Emergency Coordinator. During these times, the shift foreman will notify the Emergency Coordinator, above, who will assume responsibility for implementation upon his arrival at the plant. Also on nights, weekends and holidays when there is no shift work occurring the plant is patrolled by N.W. Natural Gas guards who make rounds of the plant hourly. The guards have been provided a list of emergency phone numbers to call in case of a problem.

Phone numbers for Koppers Industries Corporate Contacts are provided on Page 14.

2.4 Hazardous Materials Inventory

The primary hazardous materials which are used or stored on the Koppers site are listed by tank in Table 3.7, Tank Listings Table (page 9). The tanks and facilities are shown on the site map by number or name.

3.0 SPILL PREVENTION, CONTROL, AND COUNTERMEASURES

3.1 Description

This section of the Plan provides information specific to the storage and handling of hazardous liquids, spill prevention and containment equipment, and countermeasures to be implemented to control the impact of a spill. The Tank Listings Table, Table 3.7, lists all the tanks used at the Koppers plant by number along with their name, contents, and capacity. Locations can be found for processes and tanks on the site map.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

3.2 Conformance with SPCC Standards and Guidelines

This facility meets the minimum requirements for diversionary structures and equipment to prevent discharged oil or hazardous substances from reaching navigable waters as required by 40 CFR 112.7(c) by providing secondary containment for all major tanks and process equipment.

The Portland plant is in conformance with the applicable guidelines of 40 CFR 112.7(e). Rainwater is collected, stored and then inspected prior to discharge. Tank installations are equipped with secondary containment and are regularly inspected by operators. The creosote tank car unloading station is top unloading. Spill prevention details for equipment and processes are discussed more fully below.

3.3 Inspections and Security

The operational areas in the plant are checked hourly by the operator on duty throughout each shift. The tank area is routinely checked by the operator on duty. Any problems or unusual circumstances which can not be immediately resolved are reported to the Supervisor.

3.4 General Plant Spill Prevention

A hazardous material spill can occur any place, any time. All employees must be prepared to respond immediately to control damage and to notify management. Containing a spill to the smallest area possible is the first step.

Containments can quickly be constructed using available equipment and supplies; usually by placing dirt, sand, or sawdust around the lower side of a spill with Koppers loaders. If possible, a spill should be prevented from reaching the surface water drainage, where it will spread more rapidly and have greater environmental and health impact.

Loading operations should be supervised by employees familiar with the equipment involved. Buckets or pans should be placed under hose connections to collect drips. Be prepared for hoses and pipes to be full and for liquid to be behind valves. Properly and promptly cleanup any drips or spills. Supervisors must be notified of any spills which are outside of containments. Oil, creosote, and other hazardous material deliveries are made by vehicles complying with DOT spill control regulations. Unloading is supervised by plant operators.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

systems. Collection pans should first be readily available. Collected material must be returned to the processes or be properly containerized for disposal.

3.5 Surface Drainage

The plant property is at 37' above sea level and our outfall for pumping off the collected storm runoff is located on the very south eastern tip of the property approximately 10' ft. elevation above a creek that flows to the Willamette River.

In the Portland terminal there are two run-off patterns for site drainage. The first is directly in front of the office and away from any creosote, tar handling or process area. This area would not be threatened by a spill. All other run-off channels from the tank farm, into a concrete storm run-off sump. Dual sump pumps (one operating and one standby) lift the run-off into the waste water storage tanks #1, #2, #3, #4, #5 and #6. When these tanks fill they are sampled and the samples are taken to an Oregon Department of Environmental Quality approved laboratory for analysis. Then, in accordance with the rules governing our N.P.D.E.S. permit, the samples are checked for temperature, P.H., oil and grease content and phenol content. When the laboratory reports the results and it is certified that the water in the waste water tanks is within the parameters allowed in the N.P.D.E.S. permit, the water is pumped to the out-fall and into the creek that flows into the Willamette River.

Equipment, including secondary spill containment, has been installed and procedures implemented to prevent oil or hazardous materials from leaving the plant. A spill is most likely to occur in the process area and if not contained, would drain into the ditch.

Koppers has installed extensive paving at the heat exchanger location including paving between the rail tracks and the loading area for trucks. In addition, a below grade sealed concrete sump was installed as a catch basin. This catch basin has approximately 1500 gallon capacity. Also two sump pumps have been installed. The first pump, manually activated, pumps collected storm water to the storm water runoff collection system for further handling.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

The second pump is energized only when we are unloading creosote rail cars. This pump is on a float activated switch and is piped to #39 tank, which is now designated as the emergency response tank at this location. Tank #39 is of sufficient capacity to hold the gallonage of a full tank car if needed, 20,000 gallons. It is the duty of the loading/unloading employee to clear the catch basin of water, then open the valve to 39 tank and energize the automatic pump. In this way, should a creosote spill occur, all precautions are in place to contain the release.

In the case of a spill in which hazardous materials or oils reach either of the drainage ditches, immediate action must be taken to contain the spill. Temporary earth dams should be constructed using plant equipment along the ditches, creating a series of impoundments to contain the flow. Sorbent booms may be used to remove containments from the water held behind the dams, if needed.

These dams can only hold back a limited amount of water, so emergency help should be contacted at the first sign that such a spill has occurred or may occur.

3.6 Tank Car and Truck Unloading

Tank cars are unloaded at the Unloading Station, where the process transfer pipelines are all above ground. The potential spill sources in this area include leaks from the process tanks, valves, pumps, and pipe systems. These leaks can best be prevented by proper valve and pump maintenance and equipment inspection during creosote transfers. Any leaks or drips must be cleaned up immediately.

As part of the operating procedures, drains and outlets on tank trucks and tank cars are checked for leakage before and after each loading and unloading operation. Operations personnel performing loading and unloading activities are instructed to inspect piping and pumps associated with these activities and to report spills or leakage.

The driver performs a visual inspection of the truck and trailer after each loading and prepares a Driver Vehicle Inspection Report which is filed and if repairs are needed the truck is shopped for repairs.

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The operating procedures included in this plan form the basis for the training of operations personnel in the prevention of creosote or coal tar discharge. Job positions within the Portland plant require that new personnel, working in unfamiliar process areas will have a senior experienced employee to guide them. Personnel are also instructed in the operation and maintenance of equipment to prevent discharges.

3.7 Tank Farm

All preservative tanks are in the concrete-wall-lined and earth-diked tank farm. Containment capacity of approximately 2,900,000 gallons is provided.

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Table 3.7
TANK LISTING TABLE
Koppers Industries, Portland Plant

<u>Tank No.</u>	<u>Contents</u>	<u>Size</u>	<u>Capacity (000)</u> (Gallons)
1.	Empty-out of service		660 M
2.	Not on lease		1065 M
3.	Methyl Solvent		99 M
4.	Lite Uncorrected Creosote		99 M
11.	Not on Lease		254 M
12.	Not on Lease		57 M
13.	Empty--Out of Service		20 M
17.	Heavy OilBottoms		20 M
18.	Empty--Out of Service		20 M
19.	Priming & Refractory Oil		20 M
20.	R.T. Creosote Bottoms		317 M
23.	Lite Unc. Bottoms		20 M
27.	Empty--Out of Service		20 M
33.	Heavy Oil--Pitch & Creosote		45 M
34.	N.S.R.		45 M
39.	P1/P13 Bottoms		20 M
53.	Empty-out of service		10 M
65.	Melter Pitch		761 M
66.	Empty-out of service		191 M
67.	Creosote		102 M
68.	Storage Pitch		245 M
74.	Empty-out of service		20 M
99.	Creosote Bottoms		209 M
101.	Empty-out of service		758 M
102.	Fume Tank		
WW #1	Water-Effluent		45 M
WW #2	Water-Effluent		45 M
WW #3	Water-Effluent		45 M
WW #4	Water-Effluent		45 M
WW #5	Water-Effluent		20 M
WW #6	Water-Effluent		20 M
V 207	Empty-out of service		

3.8 Fuel and Lubricating Oil

Lubricating oil is stored in 55-gallon drums, most of which are store in the oil house building. Drums should be stored upright and kept sealed. Dispensing areas should be kept clean. Oil drippage should be contained. Any minor spills should be cleaned up immediately.

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3.9 Hazardous Waste Storage Facilities

All hazardous waste that is in process is stored in drums in the rear storage area of the maintenance building. Once full, the drum or drums are disposed of through RCRA approved facilities.

4.0 EMERGENCY RESPONSE PROCEDURES

4.1 General

This section of the Plan describes the actions that are to be taken by Koppers personnel in response to any injury, accident, fire, explosion, or unplanned release of any hazardous material to the air, soil, or water.

4.2 Emergency Coordination

As soon as an emergency situation is discovered by an employee, that person shall quickly estimate the extent the problem, take safe and appropriate control action, and then notify the plant management immediately. Once notification list is Section 2.3, page 4, who is present will assume the responsibilities of Emergency Coordinator (EC). Other personnel will respond as a team under the direction of the E as needed based on the type of emergency, individual skills, and plant responsibilities.

The E has Koppers Industries' commitment to spill prevention and response and has the authority to commit plant employees and contract labor and equipment to response actions and to purchase needed supplies. The E is responsible for the appropriate implementation of this plan in an emergency.

Effective communication is vital in any emergency response. All plant employees have portable two-way radios which will be used for communication and coordination between the plant offices and yard areas. Phones may also be used between offices.

4.3 Immediate Response

As soon as an employee discovers an emergency situation, he shall quickly determine the extent of the problem. If a simple action can be taken to control a release or other emergency, such as shutting a valve to stop the flow from a ruptured pipe and can be done safely, then the control action should be completed first. If there is no simple, safe control action or after taking such action the person shall immediately notify the plant management and any other personnel who may be endangered by the incident by phone or radio.

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4.4 Response Procedures

4.4.1 Upon discovery or notification that an emergency exists, the EC, assisted by the management team, shall:

- Determine the extent of the emergency,
- Implement plant evacuation, if needed, to prevent injury,
- Call for outside assistance as needed,
- Start immediate control actions,
- Implement cleanup or other responses,
- Notify local, state, and federal agencies as required,
- Notify Koppers Pittsburgh office,
- Assure completion of cleanup,
- Provide for storage of cleanup material, inc. hazardous waste,
- Evaluate possible hazards to human health or environment,
- Make a final written incident report.

Many of these actions may occur concurrently.

4.4.2 Whenever there is an imminent or actual emergency situation, the emergency coordinator, or his designee, shall:

- Immediately call by radio or phone to notify all facility personnel;
- Immediately notify appropriate federal, state, and/or local agencies with designated response roles if their help is needed;
- Make other notifications as stated in Section 3.5, Emergency Notifications.

4.4.3 Whenever there is a release, fire, or explosion, the emergency coordinator shall immediately identify the character, exact source, amount, and area extent of any released materials. This may be done by observation or review of facility records or manifests and, if necessary, by chemical analysis. Form 4.1 should be used to document the information needed for notifications.

4.4.4 Concurrently, the Emergency Coordinator shall assess possible hazards to human health or the environment that may result from the release, fire, or explosion. This assessment shall consider both direct and indirect effects of the release, fire, or explosion (e.g., the effects of any toxic, irritating, or asphyxiating gases that are generated, or the effects of any hazardous surface water run-off from water or chemical agents used to control fire and heat-induced explosions).

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4.4.5 If the Emergency Coordinator determines that the facility has had a release, fire, or explosion which could threaten human health, or the environment, outside of the facility, or if the released amount of hazardous or extremely hazardous material exceeds the Reportable Quantity (RQ), the findings shall be immediately reported to the National Response Center as in Section 4.5, Emergency Notifications.

Note that the reportable quantities for materials are listed in Section 4.5.

If his assessment indicates that evacuation of local areas may be advisable, appropriate local authorities shall be notified immediately. The Emergency Coordinator shall be available to help appropriate officials decide whether local areas should be evacuated.

4.4.6 During an emergency, the Emergency Coordinator shall take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, recur, or spread to other hazardous wastes or materials at the plant. These measures could include turning water sprays onto tanks, stopping and isolating processes, shutting off power to areas, collecting and containing released materials, or moving and isolating other containers.

4.4.7 If some or all operations are stopped in response to an emergency, the emergency coordinator shall monitor tanks, pipes, valves, and other process equipment for leaks, pressure build-up or ruptures wherever appropriate.

4.4.8 Immediately after an emergency, the Emergency Coordinator shall provide for treating, storing, or disposing of recovered materials or wastes, contaminated soil, surface water, or any other material that results from a release, fire, or explosion.

4.4.9 Before resuming operations, the Emergency Coordinator shall:

a. Insure that clean-up is complete to the point that operations will not interfere or create further potential for hazardous waste release,

b. Insure that all emergency equipment is cleaned and fit for use, and

c. If hazardous wastes or a hazardous waste unit has been involved, then advise the Dept. of Environmental Quality and EPA Region X that Steps a. and b. above are complete.

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4.4.10 If hazardous wastes or a hazardous waste unit has been involved, the Emergency Coordinator shall submit a written report within 15 days of the incident to the Dept. of Environmental Quality. Form 4.1, completed, may fulfill this purpose or will at least provide a basis for the report. A copy of the completed report shall be maintained in the Operating Record.

4.5 Emergency Notifications

4.5.1 The emergency coordinator shall ensure that the necessary notifications are made. Form 4.1 entitled, "Emergency and/or Hazardous Materials Incident Report" is to be used. Page one is organized to provide all the information needed for the initial verbal notification of the National Response Center or other agencies. As soon as a spill or other incident is discovered, the supervisor/manager who will do the reporting should begin filling in the information.

Page 2 should be used as a log of notifications made. Get the position and name of the person who accepts the phone notifications. Also, if an incident number is assigned, as by the National Response Center, that number should be recorded. As more is learned about the incident, the report should be updated. Updates can be recorded on page 2 as well.

Pages 1 and 2, completed either by hand or typed, can be used for the required written notification of agencies. These should be sent with cover letters showing everyone who will get copies. Copies must be kept in the plant's Operating Record.

Finally, page 3 should be used for Koppers Industries internal reporting of additional related information. KII has an obligation to report all spills which could possibly impact over-all cleanup work. The complete report, Pages 1, 2, and 3 should be sent to W.E. Swearingen, Environmental Program Manager including original photographs. He will provide the required notification to Beazer East, Inc.

4.5.2 WHAT SPILLS OR INCIDENTS MUST BE REPORTED AND TO WHOM?

Following is a summary. Note that more than one category may apply.

If outside help is needed. IMMEDIATELY:

Call fire and/or other appropriate emergency agencies, describe incident and needed assistance, such as fire suppression, medical aid, evacuation, and/or crowd control.

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If release or threatened release of hazardous material,
IMMEDIATELY:

Call 911-for immediate help, then call both the Oregon Emergency Management Office at 1-800-452-0311 and the National Response Center at 1-800-424-8802. This report shall be made unless it is determined that the release poses no significant hazard to human health and safety, property, or the environment and is less than the reportable quantity for the material.

Such releases which cannot be recovered must also be included in the SARA Title III annual reports.

If health threat or release outside of facility: OR

If the release results in or has the potential to cause an oil sheen on or discoloration of runoff water; OR

If release of hazardous or extremely hazardous material exceeds the Title III Reportable Quantity, IMMEDIATELY:

All National Response Center at 800-424-8802.

If the release results in or has the potential to reach the City Storm or Sanitary Sewer drains, IMMEDIATELY:

Call the Duty Officer at 823-7180

If hazardous waste or a hazardous waste unit is involved OR if the plant contingency plan is implemented; IMMEDIATELY AND NOT LATER THAN 24 HOURS:

Call the Oregon Emergency Management Office at #1-800-452-0311
AND, Within 15 days

Submit a written report of the incident to them at:
595 Cottage Street, N.E.
Salem, Oregon 97310

If injuries result in 3 or more people being hospitalized or 1 or more person killed, IMMEDIATELY:

Call the U.S. Occupational Safety and Health Administration or authorized state OSHA agency **WITHIN 8 HOURS!**

In all cases, as soon as the emergency situation allows, Koppers management in Pittsburgh shall be called. Follow the guidance contained in "Internal Emergency Notification Procedures" for Koppers Industries, Inc. At least one of the following primary contacts in Pittsburgh shall be notified:

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<u>Name, Position</u>	<u>Work Phone</u>	<u>Home Phone</u>
Bill Swearingen, Program Manager	412/227-2883	
Mike Juba, Mgr. Health & Safety	412/227-2882	
Randy Collins, Mgr. Loss Control	412/227-2456	

4.5.3 WHAT SPILLS ARE REPORTABLE?

For hazardous materials, Reportable Quantities (RQ) are specified by the EPA. Additional requirements may be set by some states. The Federal Quantities are:

Creosote	1 pound
Benzo (A) Pyrene	163 lbs. of solid pitch or 15 gal. of liquid pitch
Dibenzo (A,H) Anthracene	163 lbs. of solid pitch or 15 gal. of liquid pitch.

The Clean Water Act also has reporting requirements. Generally if "oil" is released to or presents the potential to be released to navigable waters in amounts that result in a sheen on or discoloration of the water or adjoining shorelines, cause a sludge or emulsion to be deposited beneath the surface of the water or upon the adjoining shorelines, or violates an applicable water quality standard, then it is reportable and the National Response Center must be notified.

Gasoline, lubricating oils, and transmission fluid are all regulated as "oil. Unless released as above, reporting is not mandatory.

4.5.4 IF IN DOUBT, REPORT!

If a spill is large enough to require cleanup action but is not reportable, it generally is a good practice to make a courtesy report to the local agency contact. It shows that we are on top of the problem and provide valuable documentation of our response in case of a report by a third party. The attached written report form should also be completed and submitted internally.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

Page 1

Form 4.1
EMERGENCY AND/OR HAZARDOUS MATERIALS
INCIDENT REPORT

OWNER/OPERATOR: Koppers Industries, Inc.
Plant Name: Portland Plant
Street Addr: 7540 N.W. St. Helens
City, St, ZIP: Portland, OR 97210-3663
Phone: 503-286-3681
EPA ID #: ORD 027734359

FACILITY: Same as above

DATE OF INCIDENT: _____ TIME OF INCIDENT: _____

TYPE OF INCIDENT: Fire, Explosion, Hazardous Material Spill,
(Circle One) Hazardous Waste Spill, Injury Accident

Other: _____

MATERIALS INVOLVED:

<u>Name</u>	<u>Quantity</u>
_____	_____
_____	_____
_____	_____

EXTENT OF INJURIES, IF ANY:

ASSESSMENT OF ACTUAL OR POTENTIAL HAZARDS TO HUMAN HEALTH OR THE
ENVIRONMENT, WHERE APPLICABLE:

DISPOSITION OF RECOVERED MATERIAL:

<u>Material</u>	<u>Quantity</u>	<u>How Disposed or Stored</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

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Form 4.1 EMERGENCY AND/OR HAZARDOUS MATERIALS INCIDENT REPORT

NOTIFICATION LOG:

<u>Agency</u>	<u>Phone No.</u>	<u>Name of Person</u>	<u>Date/Time Notified</u>
Portland Fire Dept.	911	_____	_____
Oregon Emergency Management	1-800-452-0311	_____	_____
National Response Center	1-800-424-8802	_____	_____
Oregon OSHA	229-5910	_____	_____
City Duty Officer	823-7180	_____	_____
(For Storm, Sewer, Drain	Contamination, only)	_____	_____
Northwest Natural Gas	224-3532	_____	_____
Wacker Siltronics	243-2020	_____	_____
Security for FAB #1	Ext. 7420	_____	_____
Security for FAB #2	Ext. 4300	_____	_____
Pacific Northern Fuels	286-9621	_____	_____

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

Page 2a

Form 4.1
EMERGENCY AND/OR HAZARDOUS MATERIALS
INCIDENT REPORT

Environmental Program

Manager - KII 412-227-2883 Bill Swearingen
or Home: 304-737-0627

ADDITIONAL DESCRIPTION OF INCIDENT AND ACTIONS TAKEN (Attach page if needed):

REPORT BY (Name):

REPORT REVISED:

REPORT REVISED:

DATE

DATE

DATE

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

Page 3

**Table 4.1
EMERGENCY AND/OR HAZARDOUS MATERIALS
INCIDENT REPORT**

SUPPLEMENTAL INFORMATION REPORT

(This part of report is intended for KII internal use only.)

CLEARLY DESCRIBE HOW INCIDENT OCCURRED:

WHAT ACTS OR CONDITIONS MOST DIRECTLY CAUSED THE INCIDENT:

DESCRIBE ANY RESIDUAL CONTAMINATION OR IMPACT:

ATTACH PHOTOGRAPHS WHICH SHOW INCIDENT AREA, BEFORE AND AFTER RESPONSE ACTIONS. MARK DATE OF PHOTOS. ATTACH ADDITIONAL SHEETS AS NEEDED TO DESCRIBE INCIDENT AND RESPONSE ACTIONS.

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4.6 Available Equipment

The following equipment is available at the plant:

- Front-end Hydraulic payloaders
- 1 Pickup Truck
- Sawdust and sorbents
- Lift Trucks
- Portable Pump

The above equipment can be effectively used to control and clean a spill of oil, hazardous material, or hazardous waste. Trucks and tractors can be used to transport and place soil for containment dams, sorbent to soak up spilled liquid, and contaminated soil from cleanup actions. Pumps can be used to pump spilled liquid back into containments. After response action is complete, equipment should be placed on the drip pad or vehicle wash pad and be decontaminated with the steam cleaner prior to being released from the response.

4.7 Emergency Response Contract Service

Koppers has entered into a Corporate Agreement with O.H. Materials Corporation to provide various environmental services in the event of an emergency. O.H. Materials has subcontracted this service in the Portland area to Foss Environmental Services, they can be reached at their local number 283-1150, all 24 hours a day.

4.8 Fire and Disaster Response Plans

4.8.1 This section of the Plan provides additional information on specific response actions to be taken in the event of a major disaster, emergency, or other disruption. Such an event could include:

- Fire or explosion
- Earthquake
- Strike or civil strife.

4.8.2 Fire or Explosion

Fire disasters can occur anywhere in the plant environment, so all employees should be knowledgeable as to the proper method for handling all types of fires, and where the largest potential risk areas are located. Communications with and between plant employees is vital to a safe and effective response.

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4.8.3 Designated Response Stations

In the case of a disaster or other major incident, employees shall secure their work areas and processes and then report to the General Foreman and/or Plant Manager, if they are not directly involved in Emergency Response.

Plant Office Employees stay at office. Coordinate outside calls, inquiries, and media contacts.

4.8.4 Evacuation

The need for evacuation shall be signalled by a message over the radio to all employees. Employees shall follow the safest path to meet and check in at the closest location outside the property fence, that is considered to be a safe area.

Supervisors shall account for all of their employees, notify the main office when they are "all clear" and relay further instructions. An alternate location will be designated and announced at the time of the incident if the service building is not a safe check-in location.

4.8.5 Fire Suppression Systems

Fire Hose and Hose Reels are located at strategic points around the plant. Employees must be familiar with ones within their work areas.

Fire Extinguishers are located throughout the plant and on rolling stock. CO-2 and ABC Dry Chemical types are used exclusively.

4.8.6 Civil Strife, Strike

Emergencies resulting from, or shutdowns as a result of, civil strife or strike situations require the control of people entering the plant, both authorized and unauthorized. Local law enforcement agencies can be helpful in achieving this goal, but in-plant security is management's immediate concern. When a total shutdown is planned, and security measures are to be implemented, the following should be observed.

Boiler

- Secure door locks.
- Follow established shutdown procedure.
- Assure that all steam line drains are open.

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Hazardous Waste Storage Facility

- Properly store all hazardous waste drums in facility.
- Lock doors.

Major Operations

- Secure electrical panels.
- Turn off air compressors, shut valves.
- Store and secure portable tools, cords, hoses, etc.
- Clean up area for safety and fire protection.

Rolling Stock

- Park centrally in area in front of shop.

Gates

- Keep locked at all times.
- Put on new locks to prevent unauthorized entry.

Access Roads

- Blockade with ties or lumber.

Security Patrols

- At least 2 persons will provide security patrols on shifts, 24 hours per day.
- Plant vehicles will be provided
- Communication will be maintained at all times between the patrols and the main office by radio.

Lighting

The plant has general yard lighting system consisting of flood lights, street lights and incandescent lighting. Outdoor lighting is controlled by timers of photo cells.

4.9 Medical Emergency Plans

Emergency and first aid supplies are maintained at the following work locations:

Control Room
Maintenance Shop
Main Office (Main supply center)

First aid supplies are intended for use on minor cuts, abrasions, and burns requiring simple care such as band-aids, disinfectant, or ointment. Supplies are also available for the immediate treatment of severe injuries while awaiting professional medical care, such as gauze pads, bandages, and splints.

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First aid applied at the plant by plant employees is in no way intended to replace any needed medical attention, but only to help prior to receiving professional treatment.

If a serious injury occurs, assure that an ambulance is called immediately.

5.0 STORM WATER POLLUTION PREVENTION PLAN

5.1 General

This section of the Plan describes the pollution prevention procedures and facilities for this plant to minimize the impact of storm water runoff to the surrounding environment. This section specifically addresses the requirements of the Storm Water General NPDES Permit.

5.2 Pollution Prevention Objectives and Process

All boiler blowdown water and stormwater runoff is collected in our tank farm and is handled under the terms and conditions of our NPDES permit. No discharges are made unless they meet these terms and conditions.

6.0 TRAINING

All plant employees shall receive training on the content of this plan. Supervisors will each receive a copy and become thoroughly familiar with it through training, discussion, and self study. Supervisors will train their employees in the overall plan and in the specific needs of their work areas.

Training will, at a minimum, include programs to ensure that facility personnel understand basic procedures for pollution prevention and good housekeeping and are able to respond effectively to emergencies by familiarizing them with emergency procedures, emergency equipment, and emergency systems, including, as applicable to each employee's job function:

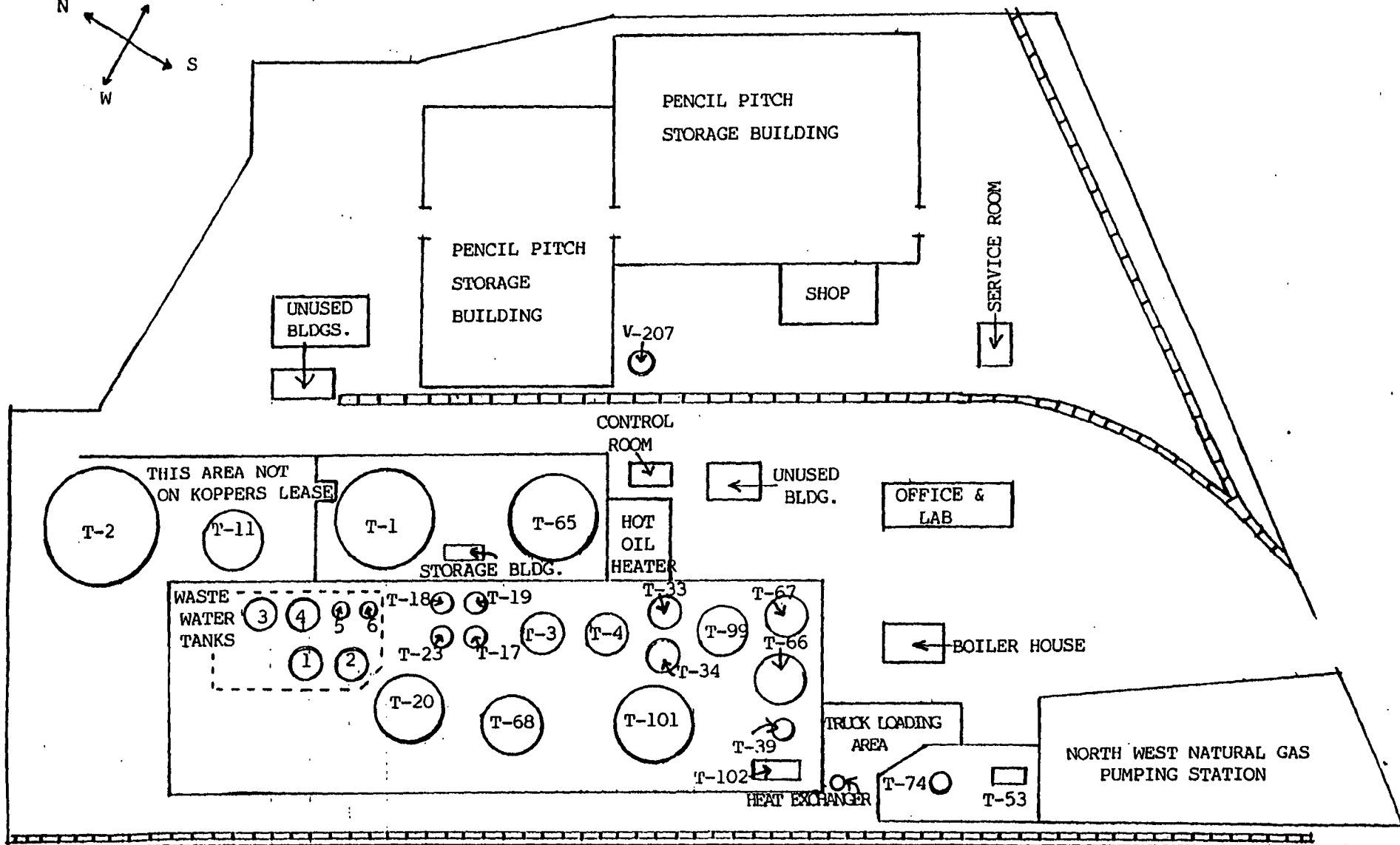
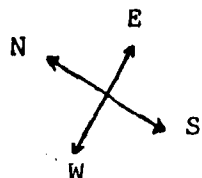
- * Procedures for using, inspecting, repairing, and replacing facility emergency and monitoring equipment;
- * Communications and alarm systems;
- * Response to fires or explosions;
- * Response to ground-water or surface water contamination incidents;

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

- * Shutdown of operations;
- * Methods for the safe handling of hazardous materials;
- * Procedures for coordination with local emergency response organizations;
- * Use and location of medical supplies;
- * Use of emergency response equipment and supplies appropriate to work areas; and
- * Emergency response procedures and plans contained within this SPCC and Contingency Plan. Refresher training will be provided at least annually. New employees will not work in unsupervised positions until they have completed all training required for those positions. Supervisors will provide training to their employees and management will assure that supervisors are properly trained.

Employees with specific additional job related training needs will also be given that training, such as hazardous waste handling training as required by RCRA and State regulations, hazardous waste operating procedures for fuel additive to the boiler, storm water pollution prevention, and waste water operations.

This training may be coordinated and take place concurrent with Hazard Communication and RCRA training, safety meetings, and annual updates.



SITE PLAN

KOPPERS INDUSTRIES INC., PORTLAND, OREGON

12/95

KOPPERS INDUSTRIES

Amos S. Kamerer
Plant Manager

Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Telephone: 503-286-3681
Fax: 503-285-2831

December 22, 1994

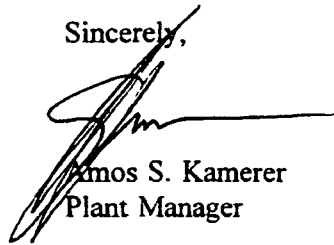
Environmental Protection Agency
Region X
1200 Sixth Ave.
Seattle, WA 98101

Ref: Spill Prevention, Control, and Countermeasures Plan

Dear Sirs:

As per our company policy, enclosed please find a copy of our revised SPCC plan for your files. Should you have any questions or comments, please feel free to contact me at any time.

Sincerely,



Amos S. Kamerer
Plant Manager

bcc: W. E. Swearingen

Koppers003388

KOPPERS INDUSTRIES

Amos S. Kamerer
Plant Manager

Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Telephone: 503-286-3681
Fax: 503-285-2831

December 22, 1994

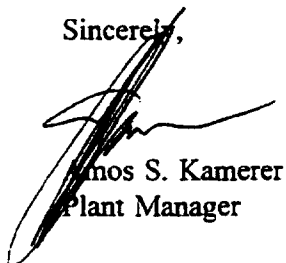
Mr. Bill Henle
Hazardous Materials Coordinator
Portland Fire Bureau
4800 NE 122nd Ave.
Portland, OR 97230

Ref: Spill Prevention, Control, and Countermeasures Plan

Dear Mr. Henle:

As per our company policy, enclosed please find a copy of our revised SPCC plan for your files.
Should you have any questions or comments, please feel free to contact me at any time.

Sincerely,



Amos S. Kamerer
Plant Manager

bcc: W. E. Swearingen

Koppers003389

KOPPERS INDUSTRIES

Amos S. Kamerer
Plant Manager

Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Telephone: 503-286-3681
Fax: 503-285-2831

December 22, 1994

Mr. Stephen Rosenberger
~~Ms. Christina K. Anderson~~
City of Portland
Environmental Services
1120 SW Fifth Ave., Room 400
Portland, OR 97204-1972

Ref: Wastewater Discharge permit #314-001

Dear Ms. Anderson:

As part of the requirements of the above permit, enclosed please find a copy of our revised Spill Prevention, Control, and Countermeasures Plan. If you have any questions, please feel free to contact me at any time.

Sincerely,



Amos S. Kamerer
Plant Manager

cc: W. E. Swearingen, KII

Koppers003390



Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Amos S. Kamerer
Plant Manager

Telephone: 503-286-3681
Fax: 503-285-2831

December 22, 1994

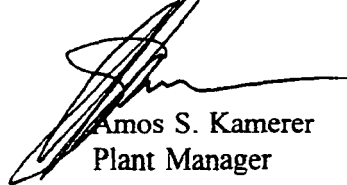
Mr. Elliot Zais
Dept. of Environmental Quality
2020 SW Fourth Ave., 4th Floor
Portland, OR 97201

Ref: Spill Prevention, Control, and Countermeasures Plan

Dear Mr. Zais:

As per our company policy, enclosed please find a copy of our revised SPCC plan for your files.
Should you have any questions or comments, please feel free to contact me at any time.

Sincerely,

A handwritten signature in black ink, appearing to read "Amos S. Kamerer", written over a horizontal line.

Amos S. Kamerer
Plant Manager

bcc: W. E. Swearingen

Koppers003391



Oregon

Theodore Kulongoski, Governor

Department of Environmental Quality

Northwest Region Portland Office

2020 SW 4th Avenue, Suite 400

Portland, OR 97201-4987

(503) 229-5263

FAX (503) 229-6957

TTY (503) 229-5471

5 October 2006

Christopher Rich
Perkins Coie
1120 NW Couch St., 10th. Floor
Portland OR 97209

RE: Koppers Inc. NPDES Permit Renewal, Permit 101642

Dear Mr. Rich:

This letter is in response to your October 25, 2005 letter.

1. Rationale for Effluent Limitations

A. Proposed Permit Limits

Polycyclic Aromatic Hydrocarbons (PAH) Limits: I performed reasonable potential analyses (RPA) based on EPA's Technical Support Document For Water Quality-based Toxics Control. There are no approved fresh acute and fresh chronic water quality criteria for any PAHs. The values used for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and dibenzo(ah)anthracene are from OAR 340-041 Table 33A. PAH values in Table 33A were adopted by the Environmental Quality Commission and are more stringent than the old standards as no criteria were contained in Table 20 except for total PAH. The EQC-adopted criteria have not been approved by EPA but we have been instructed to implement the more stringent criteria. RPA spreadsheets assuming Koppers discharges to Doane Creek and to the Willamette River show reasonable potential to exceed limits for several polycyclic aromatic hydrocarbons. Based on these results, we believe it is appropriate to set effluent limits.

Benzene and BTEX Limits: The Department established the technology-based limits for benzene and BTEX for the 1995 renewal of the 1500A general permit. The limits were based on reported experience by permittees. The limits assumed the availability of at least 10 to 1 dilution in the receiving stream. Koppers's discharge ends up in the Willamette and will meet this criterion. The limits assume that an ordinary properly operating treatment system is in place. BTEX has been detected in Koppers's discharge at high enough levels to warrant permit requirements.

Cyanide: The Department has decided to monthly average and daily maximum limits for cyanide based on a reasonable potential analysis.

The permit does not authorize the discharge of contaminated groundwater. The analyses of Koppers's discharge show distinct similarities to groundwater samples collected on site. These pollutants need to be dealt with in some manner because they are known to be present. The choices that we see are 1) setting permit limits or 2) disallowing the discharge.

B. Application of Cleanup Standards to NPDES Discharges



Koppers003392

In addition to the Department review and evaluation of updated criteria for discharge limits in the subject permit, DEQ also considered the location of Koppers NPDES discharge to Doane Creek.

This reach of Doane Creek has limited water flow and gradient with a reasonable potential for deposition and accumulation of contaminants present in the Koppers NPDES discharge.

This reach of Doane Creek has been identified by the U.S. Army Corps of Engineers as a potential candidate for habitat restoration for threatened and endangered salmonid recovery.

This reach of Doane Creek is part of the NW Natural Gasco, Siltronic and Rhone Poulenc cleanup sites and has been determined to be sensitive habitat for the purposes of ecological risk assessments that are both pending and in progress. Based on available remedial investigation data from the Siltronic site, Doane Creek and the Northwest Drainage Pond, DEQ anticipates that remedial measures to protect this sensitive habitat will be required for many of the contaminants present in the Koppers' NPDES discharge. Discharge limits for many of the contaminants in the current NPDES Permit exceed the DEQ Level II screening values that the DEQ Cleanup Program uses to evaluate risk to ecological receptors. These values can be found at

<http://www.deq.state.or.us/wmc/documents/eco-2slv.pdf>.

Consequently, there is potential for the Koppers discharge to contribute to risk associated with contaminants in Doane Creek sediments and surface water and to confound or exacerbate future remedial measures.

Doane Creek is routed through a City of Portland storm sewer pipe prior to its discharge to the Willamette River. Monitoring of effluent at the outfall and within Doane Creek has shown exceedances of the Interim Final Joint Source Control Strategy (JSCS) screening level values for many of the contaminants present in the Koppers NPDES discharge.

In February 2001, DEQ, the United States Environmental Protection Agency (EPA) and other government parties signed a Memorandum of Agreement (MOU) that provided a framework for coordination and cooperation in the Portland Harbor Superfund Site. Under the MOU, DEQ, using state cleanup authority, has the lead technical and legal responsibility for the upland contamination and for coordinating with EPA on upland contamination which may impact the Willamette River. Koppers's NPDES discharge is a source of contaminants to the Willamette River and the Portland Harbor. In reviewing the Koppers NPDES discharge limits, DEQ did consider whether they would meet the objectives for upland source control under the MOU and the JSCS. DEQ considered this less burdensome to Koppers than issuing a Cleanup Program Order for source control or adding Koppers to the existing Remedial Investigation Feasibility Study Agreement with NW Natural for the Koppers/Gasco site.

Northwest Natural is not currently under a specific cleanup order or plan to pump and treat contaminated groundwater from the site. However, groundwater beneath the Koppers facility is



heavily contaminated, and the evaluation of remedial measures to control the migration of the impacted groundwater to the Willamette River and any upland risks is in progress.

Cyanide, benzene and naphthalene are signature contaminants for contaminated groundwater at the Gasco site. These compounds were recently detected by Koppers in their monitoring of their NPDES discharge. Equivalent levels of benzene and naphthalene would not, in DEQ's opinion, be anticipated to be present in stormwater from the Koppers site. It is likely that Koppers is pulling contaminated groundwater from the sumps in the tank basin when they pump them. DEQ did not evaluate the overall PAH signature in groundwater at the Gasco site when it drew this conclusion. Groundwater data from the Koppers area is presented in the October 9, 1998 Phase I Remedial Investigation Summary Report prepared by Hahn and Associates for the Gasco site. Additional groundwater data may be presented in the quarterly project progress reports provided by NW Natural. Please contact Dawn Weinberger at (503) 229-6792 if you would like to review these reports or to arrange to make copies of them. Alternatively, a request to NW Natural to provide a summary of groundwater data beneath the Koppers facility is another option.

2. Additional Permit Limits and Monitoring

The pollutants we are proposing to monitor appear in Koppers's discharge as shown in the analyses provided for this permit renewal. Additional monitoring is being proposed because these pollutants appear in the discharge and Koppers is responsible for the content of their discharge. The relationship of these pollutants to stormwater is irrelevant. If they are in the discharge, Koppers is obliged to deal with them.

3. Contaminated Aquifer Policy

The DEQ Contaminated Aquifer Policy states that DEQ will not provide release from liability letters to owners or operators of impacted property. In addition, given the past and current operations conducted by Koppers on the Gasco site, it is reasonably likely that these operations resulted in releases of hazardous substances that may have contributed to soil and groundwater impacts (e.g., Koppers land disposal area). The Contaminated Aquifer Policy is not binding on the NPDES permit.

If contaminated groundwater is infiltrating into Koppers' sumps, then Koppers must either repair the stormwater sumps to prevent groundwater infiltration or find a way to treat the contaminated stormwater in the sumps to meet state water quality standards.

If you have any additional questions, please contact me.

Sincerely,

Elliot J. Zais, PhD, PE
Senior Environmental Engineer
Northwest Region



Koppers003394

CONTINGENCY, SPCC, AND
POLLUTION PREVENTION PLAN


KOPPERS INDUSTRIES, INC.
PORTLAND PLANT
PORTLAND, OR

3/17/97

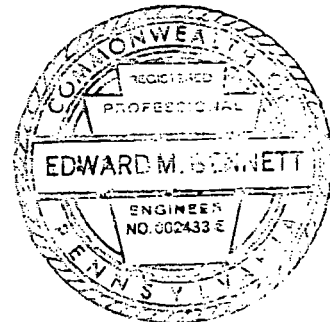
CONTINGENCY PLAN,
SPILL PREVENTION, CONTROL
AND COUNTERMEASURES (SPCC) PLAN
AND
STORM WATER POLLUTION PREVENTION PLAN
KOPPERS INDUSTRIES, INC.
PORTLAND PLANT
PORTLAND, OR
December 7, 1994

CERTIFICATION

I hereby certify that I have inspected the subject facility, and being familiar with the provisions of 40 CFR 112 for SPCC requirements and 40 CFR 122 for Storm Water Pollution Prevention requirements, attest that this Plan has been prepared in accordance with good engineering practices.


Edward M. Bennett
Tar Products Engineer
PENNA. #002433E

Date: 12/20/94



MANAGEMENT APPROVAL

This SPCC Plan will be implemented as herein described.

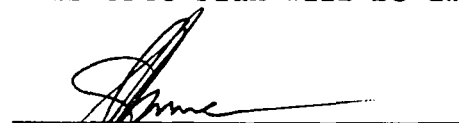

Amos S. Kameron
Plant Manager

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SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

1.0 INTRODUCTION

This plan has been developed to; a) provide a basis for planning for and responding to potential spills, accidents, fires, or other contingencies and b) describe and implement practices to minimize and control pollutants in storm water discharges and ensure discharge permit compliance. It includes the requirements for the Contingency Plan as required by the Resources Conservation and Recovery Act (RCRA), the Spill Prevention, Control, and Countermeasures (SPCC) Plan and Storm Water Pollution Prevention Plan (SWPPP) of the Clean Water Act, and the inventory reporting requirements of the Emergency Planning and Community Right-to-Know Act (SARA Title III).

Questions concerning this plan may be directed to:

Amos S. Kameroner	Plant Manager (503) 286-3681
T.J. Turner	General Foreman (503) 286-3681

1.1 FACILITY LOCATION

The Portland plant is located in Multnomah county in the city of Portland, OR. The terminal is located on approximately 6.4 acres of leased property. The property owner is the Northwest Gas company, 220 NW 2nd Ave., Portland, OR, 97209. The portion of the property that Koppers Industries leases is addressed as 7540 N.W. St. Helens Rd., Portland OR, 97210. The property is bounded by St. Helens Rd (Oregon State Highway 30) on the south, the Northwest Natural Gas Company property extending to the shore of the Willamette River on the North, The Northwest Gas Company liquified Natural Gas Plant on the west. A service road separates Koppers property from Wacker Siltronic Corporation, on the eastern boundary. Approximately 10 people are employed at the terminal (4 salaried people, 6 hourly people). Normal operating hours are 4:00 p.m. to 4:30 p.m., Sunday through Friday. Generally, the plant is closed on the weekends.

1.2 OPERATION

Coal tar pitch and other related products are shipped into the terminal from our four domestic production plants via tank cars or are imported via bulk cargo ships. These products are then stored or further remanufactured at the terminal, prior to the distribution to our customers. Outbound shipments are then made via tank truck or tank cars.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

All products and/or chemicals used or handled through the terminal are covered by material safety data sheets which are on file. All employees have been trained on the usage of these materials and educated in the proper manner of reading and understanding of the material safety data sheets. This training is mandatory and retraining is given annually.

1.3 COORDINATED EMERGENCY SERVICES

This plan is written to facilitate the quick and efficient coordination of emergency response actions between Koppers Industries Inc. (Koppers) and any emergency response companies or agencies which may be needed. Copies of this plan, and updates, are provided to the following:

- U. S. EPA Region X
- Oregon Department of Environmental Quality
- Portland Fire Department
- Plant Supervisors
- City of Portland, Environmental Services Dept.

Instructions on how and when to obtain assistance for emergency situations, including agency and contractor phone numbers, are included in section 4 of this plan.

1.4 SPCC AND SWPPP PLAN MAINTENANCE

This Plan must be kept up to date. Notify Koppers' Environmental Program Manager in the event of any change made. Automatic review, evaluation and recertification by a Professional Engineer is required once every three years from the date of the latest certification. This Plan must also be amended whenever there is a change in design, construction, operation or maintenance which materially affects the facility's potential for discharge, and the amendment fully implemented as soon as possible and no later than within six months.

A copy of this Plan is to be maintained in the plant's main office and the plant's melter control room.

Notify the Environmental Program Manager if any amendment needs to be made to this Plan.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

2.0 INVENTORY OF OIL AND HAZARDOUS MATERIALS

2.1 Discussion

Various materials are used at the Koppers facility which are considered hazardous based on the toxicity or flammability of the materials. These include preservatives which are used in the industrial processes to pressure treat wood products, unusable waste products from these processes, boiler water treatment chemicals, and fuel and lubricants for plant vehicles and equipment.

2.2 Business Information and Identification

The following information applies to the Koppers Industries Portland Plant:

Business Name:	Koppers Industries, Inc.
Business Phone:	(503) 286-3681
Owner:	Koppers Industries, Inc. 436 Seventh Ave. Pittsburgh, PA 15219
Operator:	Same as owner.
SIC Code:	2865
EPA ID Number:	ORD 027734359
Site Address:	7540 N.W. St. Helens Rd. Portland, OR 97210
Mail Address:	same as above
Type of Business:	Creosote, Refined Tars and Coal Tar Pitch Terminal

2.3 Emergency Contacts/Emergency Coordinators

<u>Name/Address</u>	<u>Title</u>	<u>Home Phone</u>
Amos S. Kameron 5912 S.W. Knights Bridge Dr. Portland, OR 97219	Plant Manager	[REDACTED] [REDACTED]
T.J. Turner 17815 N.E. 152nd Ave. Brush Prairie, WA 98606	General Foreman	[REDACTED] [REDACTED]

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

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<u>Name/Address</u>	<u>Title</u>	<u>Home Phone</u>
Amos S. Kameron 5912 S.W. Knights Bridge Dr. Portland, OR 97219	Plant Manager	(503) 246-8045
T.J. Turner 17815 N.E. 152nd Ave. Brush Prairie, WA 98606	General Foreman	(360) 896-5139

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

The above people can normally be reached during work hours at the business phone number, (503) 286-3681. Additionally, the night shift operator (when there is a night shift) can be reached at (503) 286-3681.

The plant manager is the Primary Emergency Coordinator and should be contacted first. If he is not available, the others should be called, in the order listed, until someone is reached. The Primary Emergency Coordinator and alternates have complete authority to commit all necessary resources of the company in the event of an emergency.

During off shifts, holidays, and weekends, the shift foreman will be the acting Emergency Coordinator. During these times, the shift foreman will notify the Emergency Coordinator, above, who will assume responsibility for implementation upon his arrival at the plant. Also on nights, weekends and holidays when there is no shift work occurring the plant is patrolled by N.W. Natural Gas guards who make rounds of the plant hourly. The guards have been provided a list of emergency phone numbers to call in case of a problem.

Phone numbers for Koppers Industries Corporate Contacts are provided on Page 14.

2.4 Hazardous Materials Inventory

The primary hazardous materials which are used or stored on the Koppers site are listed by tank in Table 3.7, Tank Listings Table (page 9). The tanks and facilities are shown on the site map by number or name.

3.0 SPILL PREVENTION, CONTROL, AND COUNTERMEASURES

3.1 Description

This section of the Plan provides information specific to the storage and handling of hazardous liquids, spill prevention and containment equipment, and countermeasures to be implemented to control the impact of a spill. The Tank Listings Table, Table 3.7, lists all the tanks used at the Koppers plant by number along with their name, contents, and capacity. Locations can be found for processes and tanks on the site map.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

3.2 Conformance with SPCC Standards and Guidelines

This facility meets the minimum requirements for diversionary structures and equipment to prevent discharged oil or hazardous substances from reaching navigable waters as required by 40 CFR 112.7(c) by providing secondary containment for all major tanks and process equipment.

The Portland plant is in conformance with the applicable guidelines of 40 CFR 112.7(e). Rainwater is collected, stored and then inspected prior to discharge. Tank installations are equipped with secondary containment and are regularly inspected by operators. The creosote tank car unloading station is top unloading. Spill prevention details for equipment and processes are discussed more fully below.

3.3 Inspections and Security

The operational areas in the plant are checked hourly by the operator on duty throughout each shift. The tank area is routinely checked by the operator on duty. Any problems or unusual circumstances which can not be immediately resolved are reported to the Supervisor.

3.4 General Plant Spill Prevention

A hazardous material spill can occur any place, any time. All employees must be prepared to respond immediately to control damage and to notify management. Containing a spill to the smallest area possible is the first step.

Containments can quickly be constructed using available equipment and supplies; usually by placing dirt, sand, or sawdust around the lower side of a spill with Koppers loaders. If possible, a spill should be prevented from reaching the surface water drainage, where it will spread more rapidly and have greater environmental and health impact.

Loading operations should be supervised by employees familiar with the equipment involved. Buckets or pans should be placed under hose connections to collect drips. Be prepared for hoses and pipes to be full and for liquid to be behind valves. Properly and promptly cleanup any drips or spills. Supervisors must be notified of any spills which are outside of containments. Oil, creosote, and other hazardous material deliveries are made by vehicles complying with DOT spill control regulations. Unloading is supervised by plant operators.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

systems. Collection pans should first be readily available. Collected material must be returned to the processes or be properly containerized for disposal.

3.5 Surface Drainage

The plant property is at 37' above sea level and our outfall for pumping off the collected storm runoff is located on the very south eastern tip of the property approximately 10' ft. elevation above a creek that flows to the Willamette River.

In the Portland terminal there are two run-off patterns for site drainage. The first is directly in front of the office and away from any creosote, tar handling or process area. This area would not be threatened by a spill. All other run-off channels from the tank farm, into a concrete storm run-off sump. Dual sump pumps (one operating and one standby) lift the run-off into the waste water storage tanks #1, #2, #3, #4, #5 and #6. When these tanks fill they are sampled and the samples are taken to an Oregon Department of Environmental Quality approved laboratory for analysis. Then, in accordance with the rules governing our N.P.D.E.S. permit, the samples are checked for temperature, P.H., oil and grease content and phenol content. When the laboratory reports the results and it is certified that the water in the waste water tanks is within the parameters allowed in the N.P.D.E.S. permit, the water is pumped to the out-fall and into the creek that flows into the Willamette River.

Equipment, including secondary spill containment, has been installed and procedures implemented to prevent oil or hazardous materials from leaving the plant. A spill is most likely to occur in the process area and if not contained, would drain into the ditch.

Koppers has installed extensive paving at the heat exchanger location including paving between the rail tracks and the loading area for trucks. In addition, a below grade sealed concrete sump was installed as a catch basin. This catch basin has approximately 1500 gallon capacity. Also two sump pumps have been installed. The first pump, manually activated, pumps collected storm water to the storm water runoff collection system for further handling.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

The second pump is energized only when we are unloading creosote rail cars. This pump is on a float activated switch and is piped to #39 tank, which is now designated as the emergency response tank at this location. Tank #39 is of sufficient capacity to hold the gallonage of a full tank car if needed, 20,000 gallons. It is the duty of the loading/unloading employee to clear the catch basin of water, then open the valve to 39 tank and energize the automatic pump. In this way, should a creosote spill occur, all precautions are in place to contain the release.

In the case of a spill in which hazardous materials or oils reach either of the drainage ditches, immediate action must be taken to contain the spill. Temporary earth dams should be constructed using plant equipment along the ditches, creating a series of impoundments to contain the flow. Sorbent booms may be used to remove containments from the water held behind the dams, if needed.

These dams can only hold back a limited amount of water, so emergency help should be contacted at the first sign that such a spill has occurred or may occur.

3.6 Tank Car and Truck Unloading

Tank cars are unloaded at the Unloading Station, where the process transfer pipelines are all above ground. The potential spill sources in this area include leaks from the process tanks, valves, pumps, and pipe systems. These leaks can best be prevented by proper valve and pump maintenance and equipment inspection during creosote transfers. Any leaks or drips must be cleaned up immediately.

As part of the operating procedures, drains and outlets on tank trucks and tank cars are checked for leakage before and after each loading and unloading operation. Operations personnel performing loading and unloading activities are instructed to inspect piping and pumps associated with these activities and to report spills or leakage.

The driver performs a visual inspection of the truck and trailer after each loading and prepares a Driver Vehicle Inspection Report which is filed and if repairs are needed the truck is shopped for repairs.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

The operating procedures included in this plan form the basis for the training of operations personnel in the prevention of creosote or coal tar discharge. Job positions within the Portland plant require that new personnel, working in unfamiliar process areas will have a senior experienced employee to guide them. Personnel are also instructed in the operation and maintenance of equipment to prevent discharges.

3.7 Tank Farm

All preservative tanks are in the concrete-wall-lined and earth-diked tank farm. Containment capacity of approximately 2,900,000 gallons is provided.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

Table 3.7
TANK LISTING TABLE
Koppers Industries, Portland Plant

<u>Tank No.</u>	<u>Contents</u>	<u>Size</u>	<u>Capacity (000)</u> (Gallons)
1.	Empty-out of service		660 M
2.	Not on lease		1065 M
3.	Methyl Solvent		99 M
4.	Lite Uncorrected Creosote		99 M
11.	Not on Lease		254 M
12.	Not on Lease		57 M
13.	Empty--Out of Service		20 M
17.	Heavy OilBottoms		20 M
18.	Empty--Out of Service		20 M
19.	Priming & Refractory Oil		20 M
20.	R.T. Creosote Bottoms		317 M
23.	Lite Unc. Bottoms		20 M
27.	Empty--Out of Service		20 M
33.	Heavy Oil--Pitch & Creosote		45 M
34.	N.S.R.		45 M
39.	P1/P13 Bottoms		20 M
53.	Empty-out of service		10 M
65.	Melter Pitch		761 M
66.	Empty-out of service		191 M
67.	Creosote		102 M
68.	Storage Pitch		245 M
74.	Empty-out of service		20 M
99.	Creosote Bottoms		209 M
101.	Empty-out of service		758 M
102.	Fume Tank		
WW #1	Water-Effluent		45 M
WW #2	Water-Effluent		45 M
WW #3	Water-Effluent		45 M
WW #4	Water-Effluent		45 M
WW #5	Water-Effluent		20 M
WW #6	Water-Effluent		20 M
V 207	Empty-out of service		

3.8 Fuel and Lubricating Oil

Lubricating oil is stored in 55-gallon drums, most of which are store in the oil house building. Drums should be stored upright and kept sealed. Dispensing areas should be kept clean. Oil drippage should be contained. Any minor spills should be cleaned up immediately.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

3.9 Hazardous Waste Storage Facilities

All hazardous waste that is in process is stored in drums in the rear storage area of the maintenance building. Once full, the drum or drums are disposed of through RCRA approved facilities.

4.0 EMERGENCY RESPONSE PROCEDURES

4.1 General

This section of the Plan describes the actions that are to be taken by Koppers personnel in response to any injury, accident, fire, explosion, or unplanned release of any hazardous material to the air, soil, or water.

4.2 Emergency Coordination

As soon as an emergency situation is discovered by an employee, that person shall quickly estimate the extent the problem, take safe and appropriate control action, and then notify the plant management immediately. Once notification list is Section 2.3, page 4, who is present will assume the responsibilities of Emergency Coordinator (EC). Other personnel will respond as a team under the direction of the E as needed based on the type of emergency, individual skills, and plant responsibilities.

The E has Koppers Industries' commitment to spill prevention and response and has the authority to commit plant employees and contract labor and equipment to response actions and to purchase needed supplies. The E is responsible for the appropriate implementation of this plan in an emergency.

Effective communication is vital in any emergency response. All plant employees have portable two-way radios which will be used for communication and coordination between the plant offices and yard areas. Phones may also be used between offices.

4.3 Immediate Response

As soon as an employee discovers an emergency situation, he shall quickly determine the extent of the problem. If a simple action can be taken to control a release or other emergency, such as shutting a valve to stop the flow from a ruptured pipe and can be done safely, then the control action should be completed first. If there is no simple, safe control action or after taking such action the person shall immediately notify the plant management and any other personnel who may be endangered by the incident by phone or radio.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

4.4 Response Procedures

4.4.1 Upon discovery or notification that an emergency exists, the EC, assisted by the management team, shall:

- Determine the extent of the emergency,
- Implement plant evacuation, if needed, to prevent injury,
- Call for outside assistance as needed,
- Start immediate control actions,
- Implement cleanup or other responses,
- Notify local, state, and federal agencies as required,
- Notify Koppers Pittsburgh office,
- Assure completion of cleanup,
- Provide for storage of cleanup material, inc. hazardous waste,
- Evaluate possible hazards to human health or environment,
- Make a final written incident report.

Many of these actions may occur concurrently..

4.4.2 Whenever there is an imminent or actual emergency situation, the emergency coordinator, or his designee, shall:

- Immediately call by radio or phone to notify all facility personnel;
- Immediately notify appropriate federal, state, and/or local agencies with designated response roles if their help is needed;
- Make other notifications as stated in Section 3.5, Emergency Notifications.

4.4.3 Whenever there is a release, fire, or explosion, the emergency coordinator shall immediately identify the character, exact source, amount, and area extent of any released materials. This may be done by observation or review of facility records or manifests and, if necessary, by chemical analysis. Form 4.1 should be used to document the information needed for notifications.

4.4.4 Concurrently, the Emergency Coordinator shall assess possible hazards to human health or the environment that may result from the release, fire, or explosion. This assessment shall consider both direct and indirect effects of the release, fire, or explosion (e.g., the effects of any toxic, irritating, or asphyxiating gases that are generated, or the effects of any hazardous surface water run-off from water or chemical agents used to control fire and heat-induced explosions).

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

4.4.5 If the Emergency Coordinator determines that the facility has had a release, fire, or explosion which could threaten human health, or the environment, outside of the facility, or if the released amount of hazardous or extremely hazardous material exceeds the Reportable Quantity (RQ), the findings shall be immediately reported to the National Response Center as in Section 4.5, Emergency Notifications.

Note that the reportable quantities for materials are listed in Section 4.5.

If his assessment indicates that evacuation of local areas may be advisable, appropriate local authorities shall be notified immediately. The Emergency Coordinator shall be available to help appropriate officials decide whether local areas should be evacuated.

4.4.6 During an emergency, the Emergency Coordinator shall take all reasonable measures necessary to ensure that fires, explosions, and releases do not occur, recur, or spread to other hazardous wastes or materials at the plant. These measures could include turning water sprays onto tanks, stopping and isolating processes, shutting off power to areas, collecting and containing released materials, or moving and isolating other containers.

4.4.7 If some or all operations are stopped in response to an emergency, the emergency coordinator shall monitor tanks, pipes, valves, and other process equipment for leaks, pressure build-up or ruptures wherever appropriate.

4.4.8 Immediately after an emergency, the Emergency Coordinator shall provide for treating, storing, or disposing of recovered materials or wastes, contaminated soil, surface water, or any other material that results from a release, fire, or explosion.

4.4.9 Before resuming operations, the Emergency Coordinator shall:

a. Insure that clean-up is complete to the point that operations will not interfere or create further potential for hazardous waste release,

b. Insure that all emergency equipment is cleaned and fit for use, and

c. If hazardous wastes or a hazardous waste unit has been involved, then advise the Dept. of Environmental Quality and EPA Region X that Steps a. and b. above are complete.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

4.4.10 If hazardous wastes or a hazardous waste unit has been involved, the Emergency Coordinator shall submit a written report within 15 days of the incident to the Dept. of Environmental Quality. Form 4.1, completed, may fulfill this purpose or will at least provide a basis for the report. A copy of the completed report shall be maintained in the Operating Record.

4.5 Emergency Notifications

4.5.1 The emergency coordinator shall ensure that the necessary notifications are made. Form 4.1 entitled, "Emergency and/or Hazardous Materials Incident Report" is to be used. Page one is organized to provide all the information needed for the initial verbal notification of the National Response Center or other agencies. As soon as a spill or other incident is discovered, the supervisor/manager who will do the reporting should begin filling in the information.

Page 2 should be used as a log of notifications made. Get the position and name of the person who accepts the phone notifications. Also, if an incident number is assigned, as by the National Response Center, that number should be recorded. As more is learned about the incident, the report should be updated. Updates can be recorded on page 2 as well.

Pages 1 and 2, completed either by hand or typed, can be used for the required written notification of agencies. These should be sent with cover letters showing everyone who will get copies. Copies must be kept in the plant's Operating Record.

Finally, page 3 should be used for Koppers Industries internal reporting of additional related information. KII has an obligation to report all spills which could possibly impact over-all cleanup work. The complete report, Pages 1, 2, and 3 should be sent to W.E. Swearingen, Environmental Program Manager including original photographs. He will provide the required notification to Beazer East, Inc.

4.5.2 WHAT SPILLS OR INCIDENTS MUST BE REPORTED AND TO WHOM?

Following is a summary. Note that more than one category may apply.

If outside help is needed, IMMEDIATELY:

Call fire and/or other appropriate emergency agencies, describe incident and needed assistance, such as fire suppression, medical aid, evacuation, and/or crowd control.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

If release or threatened release of hazardous material, IMMEDIATELY:

Call 911-for immediate help, then call both the Oregon Emergency Management Office at 1-800-452-0311 and the National Response Center at 1-800-424-8802. This report shall be made unless it is determined that the release poses no significant hazard to human health and safety, property, or the environment and is less than the reportable quantity for the material.

Such releases which cannot be recovered must also be included in the SARA Title III annual reports.

If health threat or release outside of facility: OR

If the release results in or has the potential to cause an oil sheen on or discoloration of runoff water; OR

If release of hazardous or extremely hazardous material exceeds the Title III Reportable Quantity, IMMEDIATELY:

All National Response Center at 800-424-8802.

If the release results in or has the potential to reach the City Storm or Sanitary Sewer drains, IMMEDIATELY:

Call the Duty Officer at 823-7180

If hazardous waste or a hazardous waste unit is involved OR if the plant contingency plan is implemented; IMMEDIATELY AND NOT LATER THAN 24 HOURS:

Call the Oregon Emergency Management Office at #1-800-452-0311
AND, Within 15 days

Submit a written report of the incident to them at:
595 Cottage Street, N.E.
Salem, Oregon 97310

If injuries result in 3 or more people being hospitalized or 1 or more person killed, IMMEDIATELY:

Call the U.S. Occupational Safety and Health Administration or authorized state OSHA agency **WITHIN 8 HOURS!**

In all cases, as soon as the emergency situation allows, Koppers management in Pittsburgh shall be called. Follow the guidance contained in "Internal Emergency Notification Procedures" for Koppers Industries, Inc. At least one of the following primary contacts in Pittsburgh shall be notified:

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

<u>Name, Position</u>	<u>Work Phone</u>	<u>Home Phone</u>
Bill Swearingen, Program Manager	412/227-2883	
Mike Juba, Mgr. Health & Safety	412/227-2882	
Randy Collins, Mgr. Loss Control	412/227-2456	

4.5.3 WHAT SPILLS ARE REPORTABLE?

For hazardous materials, Reportable Quantities (RQ) are specified by the EPA. Additional requirements may be set by some states. The Federal Quantities are:

Creosote	1 pound
Benzo (A) Pyrene	163 lbs. of solid pitch or 15 gal. of liquid pitch
Dibenzo (A,H)Anthracene	163 lbs. of solid pitch or 15 gal. of liquid pitch.

The Clean Water Act also has reporting requirements. Generally if "oil" is released to or presents the potential to be released to navigable waters in amounts that result in a sheen on or discoloration of the water or adjoining shorelines, cause a sludge or emulsion to be deposited beneath the surface of the water or upon the adjoining shorelines, or violates an applicable water quality standard, then it is reportable and the National Response Center must be notified.

Gasoline, lubricating oils, and transmission fluid are all regulated as "oil. Unless released as above, reporting is not mandatory.

4.5.4 IF IN DOUBT, REPORT!

If a spill is large enough to require cleanup action but is not reportable, it generally is a good practice to make a courtesy report to the local agency contact. It shows that we are on top of the problem and provide valuable documentation of our response in case of a report by a third party. The attached written report form should also be completed and submitted internally.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

Page 1

Form 4.1
EMERGENCY AND/OR HAZARDOUS MATERIALS
INCIDENT REPORT

OWNER/OPERATOR: Koppers Industries, Inc.
Plant Name: Portland Plant
Street Addr: 7540 N.W. St. Helens
City, St, ZIP: Portland, OR 97210-3663
Phone: 503-286-3681
EPA ID #: ORD 027734359

FACILITY: Same as above

DATE OF INCIDENT: _____ TIME OF INCIDENT: _____

TYPE OF INCIDENT: Fire, Explosion, Hazardous Material Spill,
(Circle One) Hazardous Waste Spill, Injury Accident

Other: _____

MATERIALS INVOLVED:

Name

Quantity

_____	_____
_____	_____
_____	_____

EXTENT OF INJURIES, IF ANY:

ASSESSMENT OF ACTUAL OR POTENTIAL HAZARDS TO HUMAN HEALTH OR THE
ENVIRONMENT, WHERE APPLICABLE:

DISPOSITION OF RECOVERED MATERIAL:

<u>Material</u>	<u>Quantity</u>	<u>How Disposed or Stored</u>
-----------------	-----------------	-------------------------------

_____	_____	_____
_____	_____	_____
_____	_____	_____

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

Page 2

Form 4.1 EMERGENCY AND/OR HAZARDOUS MATERIALS INCIDENT REPORT

NOTIFICATION LOG:

<u>Agency</u>	<u>Phone No.</u>	<u>Name of Person</u>	<u>Date/Time Notified</u>
Portland Fire Dept.	911	_____	_____
Oregon Emergency Management	1-800-452-0311	_____	_____
National Response Center	1-800-424-8802	_____	_____
Oregon OSHA	229-5910	_____	_____
City Duty Officer	823-7180	_____	_____
(For Storm, Sewer, Drain	Contamination, only)	_____	_____
Northwest Natural Gas	224-3532	_____	_____
Wacker Siltronics	243-2020	_____	_____
Security for FAB #1	Ext. 7420	_____	_____
Security for FAB #2	Ext. 4300	_____	_____
Pacific Northern Fuels	286-9621	_____	_____

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

Page 2a

Form 4.1
EMERGENCY AND/OR HAZARDOUS MATERIALS
INCIDENT REPORT

Environmental Program

Manager - KII 412-227-2883 Bill Swearingen
or Home: 304-737-0627

ADDITIONAL DESCRIPTION OF INCIDENT AND ACTIONS TAKEN (Attach page if needed):

REPORT BY (Name):	_____	DATE	_____
REPORT REVISED:	_____	DATE	_____
REPORT REVISED:	_____	DATE	_____

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

Page 3

Table 4.1
EMERGENCY AND/OR HAZARDOUS MATERIALS
INCIDENT REPORT

SUPPLEMENTAL INFORMATION REPORT

(This part of report is intended for KII internal use only.)

CLEARLY DESCRIBE HOW INCIDENT OCCURRED:

WHAT ACTS OR CONDITIONS MOST DIRECTLY CAUSED THE INCIDENT:

DESCRIBE ANY RESIDUAL CONTAMINATION OR IMPACT:

ATTACH PHOTOGRAPHS WHICH SHOW INCIDENT AREA, BEFORE AND AFTER RESPONSE ACTIONS. MARK DATE OF PHOTOS. ATTACH ADDITIONAL SHEETS AS NEEDED TO DESCRIBE INCIDENT AND RESPONSE ACTIONS.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

4.6 Available Equipment

The following equipment is available at the plant:

- Front-end Hydraulic payloaders
- 1 Pickup Truck
- Sawdust and sorbents
- Lift Trucks
- Portable Pump

The above equipment can be effectively used to control and clean a spill of oil, hazardous material, or hazardous waste. Trucks and tractors can be used to transport and place soil for containment dams, sorbent to soak up spilled liquid, and contaminated soil from cleanup actions. Pumps can be used to pump spilled liquid back into containments. After response action is complete, equipment should be placed on the drip pad or vehicle wash pad and be decontaminated with the steam cleaner prior to being released from the response.

4.7 Emergency Response Contract Service

Koppers has entered into a Corporate Agreement with O.H. Materials Corporation to provide various environmental services in the event of an emergency. O.H. Materials has subcontracted this service in the Portland area to Foss Environmental Services, they can be reached at their local number 283-1150, all 24 hours a day.

4.8 Fire and Disaster Response Plans

4.8.1 This section of the Plan provides additional information on specific response actions to be taken in the event of a major disaster, emergency, or other disruption. Such an event could include:

- Fire or explosion
- Earthquake
- Strike or civil strife.

4.8.2 Fire or Explosion

Fire disasters can occur anywhere in the plant environment, so all employees should be knowledgeable as to the proper method for handling all types of fires, and where the largest potential risk areas are located. Communications with and between plant employees is vital to a safe and effective response.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

4.8.3 Designated Response Stations

In the case of a disaster or other major incident, employees shall secure their work areas and processes and then report to the General Foreman and/or Plant Manager, if they are not directly involved in Emergency Response.

Plant Office Employees stay at office. Coordinate outside calls, inquires, and media contacts.

4.8.4 Evacuation

The need for evacuation shall be signalled by a message over the radio to all employees. Employees shall follow the safest path to meet and check in at the closest location outside the property fence, that is considered to be a safe area.

Supervisors shall account for all of their employees, notify the main office when they are "all clear" and relay further instructions. An alternate location will be designated and announced at the time of the incident if the service building is not a safe check-in location.

4.8.5 Fire Suppression Systems

Fire Hose and Hose Reels are located at strategic points around the plant. Employees must be familiar with ones within their work areas.

Fire Extinguishers are located throughout the plant and on rolling stock. CO-2 and ABC Dry Chemical types are used exclusively.

4.8.6 Civil Strife, Strike

Emergencies resulting from, or shutdowns as a result of, civil strife or strike situations require the control of people entering the plant, both authorized and unauthorized. Local law enforcement agencies can be helpful in achieving this goal, but in-plant security is management's immediate concern. When a total shutdown is planned, and security measures are to be implemented, the following should be observed.

Boiler

- Secure door locks.
- Follow established shutdown procedure.
- Assure that all steam line drains are open.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

Hazardous Waste Storage Facility

- Properly store all hazardous waste drums in facility.
- Lock doors.

Major Operations

- Secure electrical panels.
- Turn off air compressors, shut valves.
- Store and secure portable tools, cords, hoses, etc.
- Clean up area for safety and fire protection.

Rolling Stock

- Park centrally in area in front of shop.

Gates

- Keep locked at all times.
- Put on new locks to prevent unauthorized entry.

Access Roads

- Blockade with ties or lumber.

Security Patrols

- At least 2 persons will provide security patrols on shifts, 24 hours per day.
- Plant vehicles will be provided
- Communication will be maintained at all times between the patrols and the main office by radio.

Lighting

The plant has general yard lighting system consisting of flood lights, street lights and incandescent lighting. Outdoor lighting is controlled by timers of photo cells.

4.9 Medical Emergency Plans

Emergency and first aid supplies are maintained at the following work locations:

Control Room
Maintenance Shop
Main Office (Main supply center)

First aid supplies are intended for use on minor cuts, abrasions, and burns requiring simple care such as band-aids, disinfectant, or ointment. Supplies are also available for the immediate treatment of severe injuries while awaiting professional medical care, such as gauze pads, bandages, and splints.

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

First aid applied at the plant by plant employees is in no way intended to replace any needed medical attention, but only to help prior to receiving professional treatment.

If a serious injury occurs, assure that an ambulance is called immediately.

5.0 STORM WATER POLLUTION PREVENTION PLAN

5.1 General

This section of the Plan describes the pollution prevention procedures and facilities for this plant to minimize the impact of storm water runoff to the surrounding environment. This section specifically addresses the requirements of the Storm Water General NPDES Permit.

5.2 Pollution Prevention Objectives and Process

All boiler blowdown water and stormwater runoff is collected in our tank farm and is handled under the terms and conditions of our NPDES permit. No discharges are made unless they meet these terms and conditions.

6.0 TRAINING

All plant employees shall receive training on the content of this plan. Supervisors will each receive a copy and become thoroughly familiar with it through training, discussion, and self study. Supervisors will train their employees in the overall plan and in the specific needs of their work areas.

Training will, at a minimum, include programs to ensure that facility personnel understand basic procedures for pollution prevention and good housekeeping and are able to respond effectively to emergencies by familiarizing them with emergency procedures, emergency equipment, and emergency systems, including, as applicable to each employee's job function:

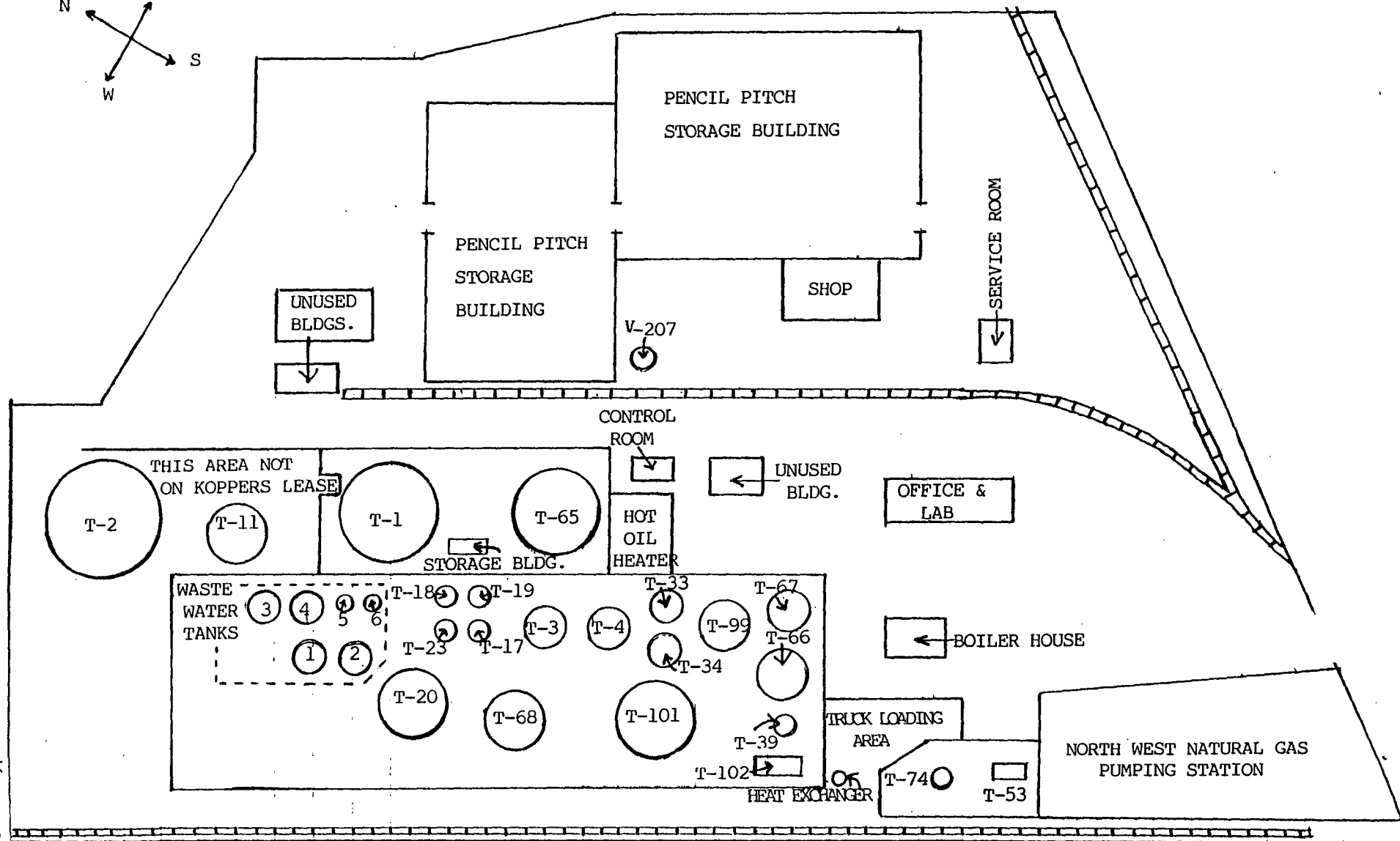
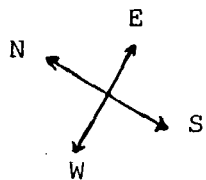
- * Procedures for using, inspecting, repairing, and replacing facility emergency and monitoring equipment;
- * Communications and alarm systems;
- * Response to fires or explosions;
- * Response to ground-water or surface water contamination incidents;

SPCC AND CONTINGENCY PLAN, PORTLAND PLANT, KOPPERS INDUSTRIES

- * Shutdown of operations;
- * Methods for the safe handling of hazardous materials;
- * Procedures for coordination with local emergency response organizations;
- * Use and location of medical supplies;
- * Use of emergency response equipment and supplies appropriate to work areas; and
- * Emergency response procedures and plans contained within this SPCC and Contingency Plan. Refresher training will be provided at least annually. New employees will not work in unsupervised positions until they have completed all training required for those positions. Supervisors will provide training to their employees and management will assure that supervisors are properly trained.

Employees with specific additional job related training needs will also be given that training, such as hazardous waste handling training as required by RCRA and State regulations, hazardous waste operating procedures for fuel additive to the boiler, storm water pollution prevention, and waste water operations.

This training may be coordinated and take place concurrent with Hazard Communication and RCRA training, safety meetings, and annual updates.



SITE PLAN

KOPPERS INDUSTRIES INC., PORTLAND, OREGON

12/95

Koppers003423



Koppers Industries, Inc.
436 Seventh Avenue
Pittsburgh, PA 15219-1800

Telephone: (412) 227-2001

July 9, 1992

EXPRESS MAIL

Mr. Charles K. Ashbaker
Water Quality, Northwest Region
Department of Environmental Quality
Business Office
811 S.W. Sixth Avenue
Portland, OR 97204

Re: NPDES Permit Renewal Application
Permit No. 100419
File No. 47430
Multnomah County

Dear Mr. Ashbaker:

Enclosed are completed application forms and check #3082179 in the amount of Eight Hundred Dollars (\$800.00 - \$50.00 filing fee and \$750.00 processing fee) for the renewal of the NPDES Permit for our Northwest Terminal.

Terminal operations have not changed significantly during the time covered by the current permit. No process wastewater is generated by terminal operations, consequently only non-contaminated storm water and boiler blowdown is discharged. We believe that the current permit limitations provide adequate protection to the environment and achieves a reasonable cost to benefits ratio. We encourage the agency to reissue the existing permit without major modifications.

If you have any questions please contact John Oxford, Plant Manager, at 503-286-3681 or me at 412-227-2883 or write me at the above address.

Sincerely yours,

A handwritten signature in cursive script, reading "W. Swearingen".

William E. Swearingen,
Manager, Environmental Programs

Enclosures

cc: John A. Oxford, Northwest Terminal

bcc: L. F. Flaherty, K-1750
J. R. Batchelder, K-1701

Koppers003424

3082179

Koppers Industries, Inc. - Pittsburgh, PA 15219-1800

Spec. Cd.	Vendor No.	Div.	Our Audit No.	Your Invoice No.	Inv. Date Mo. Day	Invoice Amt.	Discount	Net Amt. Payable	Cr.
7	967125006483		483207000008	WS NPDES RENEWAL	0707	800.00	0.00	800.00	

KOPPERS INDUSTRIES, INC.
PITTSBURGH, PA 15219-1800

62-4
311

CHECK NO. 3082179

PAY
EIGHT HUNDRED AND 00/100 ONLY

TO THE ORDER OF
OREGON ST DEPT ENVIRON QUALITY
ATTN: BUSINESS OFFICE
811 S W SIXTH AVE
PORTLAND OR 97204

JULY DATE 09 1992

PAY THIS AMOUNT
800.00

Payable through Mellon Bank (DE) N.A., Wilmington, DE 19899
Mellon Bank (East) N.A., Philadelphia, PA 19102

AUTHORIZED SIGNATURE

AUTHORIZED SIGNATURE

⑈3082179⑈ ⑆031100047⑆ 20924 926⑈

Koppers003425

RETURN APPLICATION TO:
DEPARTMENT OF ENVIRONMENTAL QUALITY
BUSINESS OFFICE
811 S.W. Sixth Avenue
Portland, OR 97234
(503) 229-3309

APPLICATION
FOR RENEWAL OF
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT (NPDES-R)
STATE OF OREGON

DEQ USE ONLY
Appl. No.:
File No.: 47430
Received:
WQ EPA No.: CR-

A. REFERENCE INFORMATION

Koppers Industries, Inc.			Present Permit No.: <u>100419</u>					
Official Name of Applicant (Owner)			Date Expires: <u>11/30/92</u>					
Northwest Terminal			Enter Site Location by Latitude and Longitude:					
Facility Name			LATITUDE					
7540 Northwest Saint Helen's Road			LONGITUDE					
Address			1. Deg.		2. Min.		3. Sec.	
Portland OR 97229			1. Deg.		2. Min.		3. Sec.	
City State Zip			45		34		38	
John A. Oxford			Alternate Responsible Official or Chief Operator					
Responsible Official			Title					
Plant Manager			Address or Location					
7540 N.W. St. Helen's Road (503) 286-3681			Phone					
Portland, OR 97229			Address or Location					
Address or Location			Phone					

Description of activities requiring a permit from the Department: (Check all that apply.)

☐ Construct, install or modify waste collection, treatment, or disposal facilities:

☐ Operate waste collection, treatment, or disposal facilities.

☐ Discharge treated wastewaters into the waters of _____

☒ (Other) Discharge stormwater to Willamette River

B. GENERAL QUESTIONS

1. Have the treatment or disposal methods employed, as indicated in previous applications, been altered in any way since the last application was submitted? ☐ Yes ☒ No (If yes, explain.)


2. Has the quantity or quality of wastes discharged, as indicated in previous applications, been significantly changed in any way since the last application was submitted? ☐ Yes ☒ No (If yes, explain.)

C. SPECIAL QUESTIONS AND REQUESTED INFORMATION

1. If any changes in operations or waste quantity or quality are anticipated in the near future, please attach an explanation or proposal.

2. Please attach a brief report which indicates your progress in meeting the requirements and limitations of your present permit.

I HEREBY CERTIFY THAT THE INFORMATION CONTAINED IN THIS APPLICATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.


Lawrence F. Flaherty
Signature of Owner
(Or Legally Authorized Representative)

Vice President
Title

7/7/92
Date

INSTRUCTION - PERMIT RENEWAL APPLICATION

- A. Reference Information: Complete the required information in detail. If there has been a name change, address change or change in personnel since the last application, please make a special note to that effect.
- B. General Questions: If more space is needed than provided on the application form, please attached as many additional pages as necessary in order to supply whatever explanation or diagrams are needed to update the treatment and disposal methods used and the characteristics of the waste discharged or otherwise disposed.
- C. Special Questions and Requested Information:
 - 1. Please elaborate on any proposed expansions, cutbacks, improvements or changes of any kind which will or may affect the quantity or quality of pollutants discharged.
 - 2. Each condition of your present permit should be reviewed and an assessment made as to the success you have had in meeting the requirements and limitations.

Signature on Application

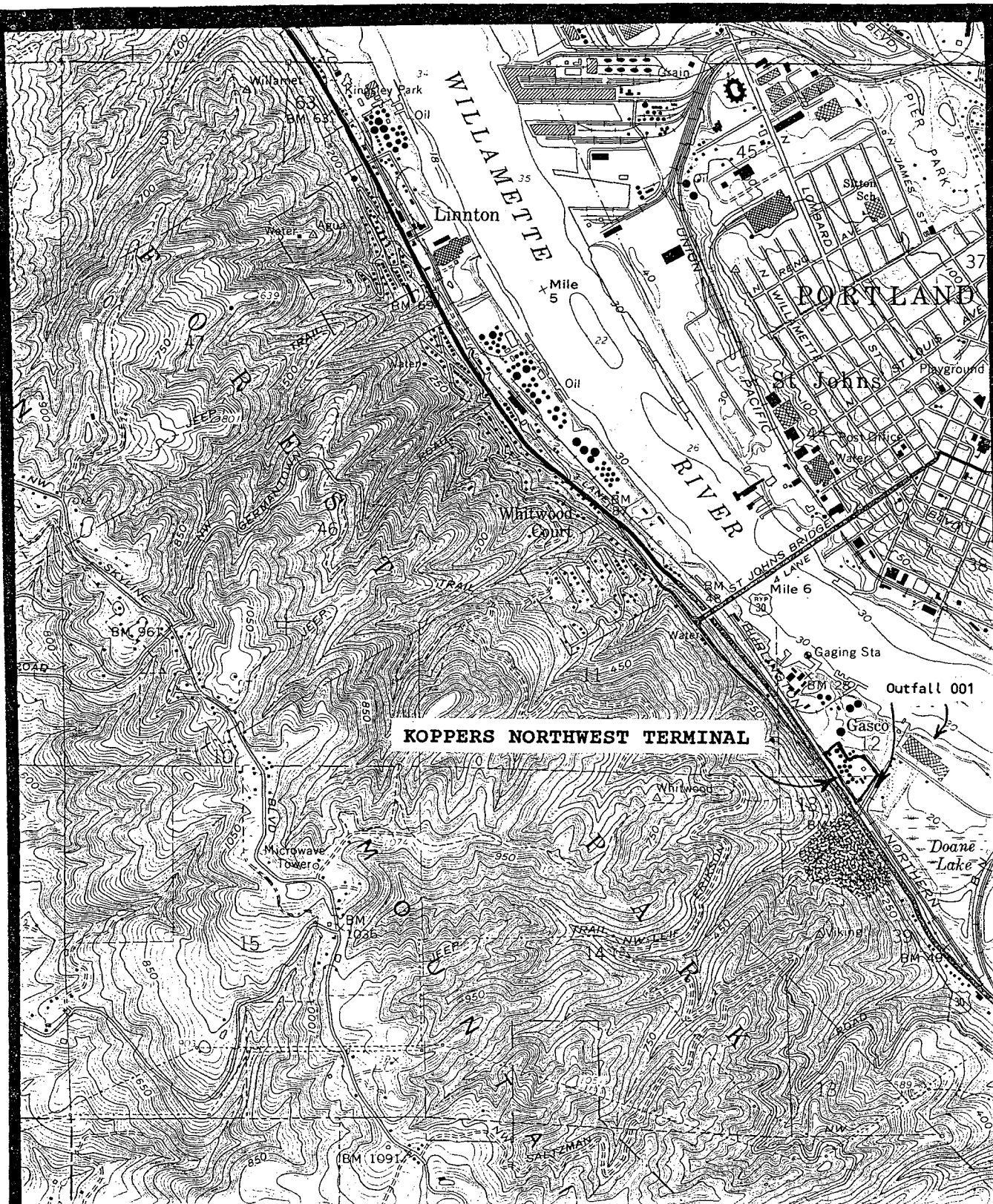
The person who signs the application form will often be the applicant himself; when another person signs on behalf of the applicant, his title or relationship to the applicant should be shown in the space provided. In all cases, the persons signing the form should be authorized to do so by the applicant. An application submitted by a corporation must be signed by a principal executive officer of at least the level of vice president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge(s) described in the form originate. In the case of a partnership or a sole proprietorship, the application must be signed by a general partner or the proprietor, respectively. In the case of a municipal, State, Federal or other public facility, the application must be signed by either a principal executive officer, ranking elected official or other duly authorized employee.

Other Instructions

Submit this application as soon as possible. It should be submitted at least 130 days prior to the expiration of your present permit.

All NPDES Permit Applications are to be submitted to:

Department of Environmental quality
Business Office
811 S.W. Sixth Avenue
Portland, OR. 97204



**KOPPERS
INDUSTRIES**

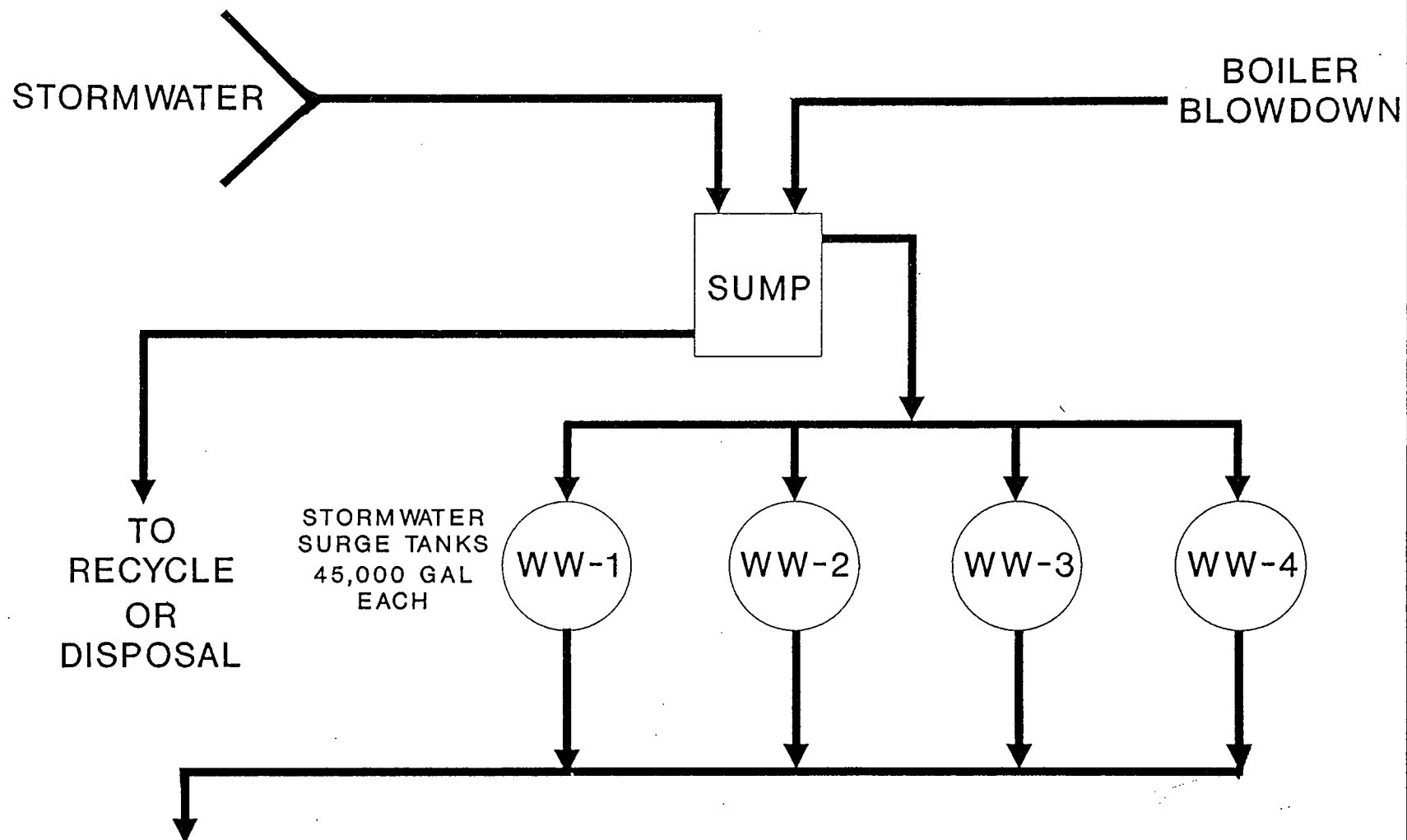
PITTSBURGH, PA

NORTHWEST TERMINAL

LATITUDE: 045D 34M 38S
LONGITUDE: 122D 45M 32S

USGS MAP
LINNTON
QUADRANGLE
OREGON

SERIES 7.5 MIN



OUTFALL 001
2700 GPD AVG
6000 GPD MAX

**KOPPERS
INDUSTRIES**

Pittsburgh, PA

**WASTE WATER
FLOW PLAN**

Northwest Terminal
Portland, OR

Please print or type in the unshaded areas only.

ORD027734359

[illegible]

CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☒ YES (complete the following table)

☐ NO (go to Section III)

1. OUTFALL NUMBER <i>(list)</i>	2. OPERATION(s) CONTRIBUTING FLOW <i>(list)</i>	3. FREQUENCY		4. FLOW				
		a. DAYS PER WEEK <i>(specify average)</i>	b. MONTHS PER YEAR <i>(specify average)</i>	a. FLOW RATE <i>(in mgd)</i>		b. TOTAL VOLUME <i>(specify with units)</i>		c. DUR- ATION <i>(in days)</i>
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	
001	Stormwater	0.5	9	2.7	6.0	82.5/mo	180/mo	244

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☒ YES (complete Item III-B)

☐ NO (to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measure of operation)?

☐ YES (complete Item III-C)

☒ NO (go to Section IV)

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION			2. AFFECTED OUTFALLS (list outfall numbers)
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. (specify)	

IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☐ YES (complete the following table)

☒ NO (go to Item IV-B)

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
	a. NO.	b. SOURCE OF DISCHARGE		a. REQUIRED	b. PROJECTED

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction. ☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

CONTINUED FROM PAGE 2

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided.
NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
Quinoline	Coal Tar Constituent		

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☒ YES (list all such pollutants below)

☐ NO (go to Item VI-B)

Total Phenols
Benzene
Toluene
Phenols
Acenaphthene
Acenaphthylene
Chrysene
Fluoranthene
Fluorene
Naphthalène
Phenanthrene
Pyrene

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ YES (identify the test(s) and describe their purposes below)

☒ NO (go to Section VIII)

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

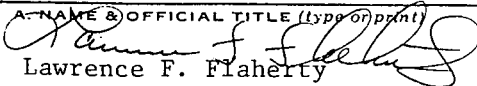
☒ YES (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)

☐ NO (go to Section IX)

A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
Coffey Laboratories, Inc.	12423 N.E. Whitaker Way Portland, OR 97230	(503) 254-1794	Form 2C Section V Parts A,B,C Full Scan

IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. NAME & OFFICIAL TITLE (type or print)  Lawrence F. Flaherty		B. PHONE NO. (area code & no.) (412) 227-2304
C. SIGNATURE		D. DATE SIGNED 7/7/92

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of information on separate sheets (use the same format) instead of completing these pages. INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)

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INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO.
001

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

POLLUTANT	2. EFFLUENT						3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)				d. NO. OF ANALYSES	a. LONG TERM AVERAGE VALUE	
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS			
Biochemical Oxygen Demand (BOD)	28						1	mg/l	lbs		
Chemical Oxygen Demand (COD)	50						1	mg/l	lbs		
Total Organic Carbon (TOC)	19						1	mg/l	lbs		
Total Suspended Solids (TSS)	13						1	mg/l	lbs		
Ammonia (as N)	0.3						1	mg/l	lbs		
Flow	VALUE 6000		VALUE 6000		VALUE 4000		22	N/A	gal	VALUE	
Temperature (water)	VALUE 12		VALUE 12		VALUE 10		3	°C		VALUE	
Temperature (air)	VALUE 26		VALUE 25		VALUE 20		3	°C		VALUE	
pH	MINIMUM 6.0	MAXIMUM 7.0	MINIMUM 6.0	MAXIMUM 6.6			23	STANDARD UNITS			

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

POLLUT- NT AND AS NO. (available)	2. MARK 'X'		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BE- LIEVED PRE- SENT	b. BE- LIEVED AB- SENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANAL- YSES	a. CONCENT- RATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANAL- YSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
romide 959-67-9)		X	<0.5	ND					1	mg/l	lbs			
Chlorine, al Residual		X	<0.5	ND					1	mg/l	lbs			
olor	X		300	N/A					1	Pt-Co	N/A			
ecal iform	X		114	N/A					1	Colonies 100 ml	N/A			
luoride 984-48-8)	X		0.2	0.01					1	mg/l	lbs			
itrate- rite (as N)	X		<0.3	ND					1	mg/l	lbs			

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X' B. RE- LIEVED PRE- SENT	D. RE- LIEVED AB- SENT	3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
			B. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANAL- YSES	B. CONCENTRATION	b. MASS	B. LONG TERM AVERAGE VALUE		D. NO. OF ANAL- YSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)	X		0.8	0.04					1	mg/l	lbs			
h. Oil and Grease	X		1.7	0.08	1.7	0.08	0.85	0.03	23	mg/l	lbs			
i. Phosphorus (as P), Total (7723-14-0)	X		0.2	0.01					1	mg/l	lbs			
J. Radioactivity														
(1) Alpha, Total		X	N/A	N/A					0	N/A	N/A			
(2) Beta, Total		X	N/A	N/A					0	N/A	N/A			
(3) Radium, Total		X	N/A	N/A					0	N/A	N/A			
(4) Radium 226, Total		X	N/A	N/A					0	N/A	N/A			
k. Sulfate (as SO ₄) (14808-79-8)	X		8.8	0.44					1	mg/l	lbs			
l. Sulfide (as S)	X		0.03	0.0015					1	mg/l	lbs			
m. Sulfite (as SO ₃) (14265-45-3)	X		<5.0	ND					1	mg/l	lbs			
n. Surfactants	X		0.72	0.036					1	mg/l	lbs			
o. Aluminum, Total (7429-90-5)	X		<0.1	ND					1	mg/l	lbs			
p. Barium, Total (7440-39-3)	X		0.017	<0.001					1	mg/l	lbs			
q. Boron, Total (7440-42-8)	X		0.1	0.005					1	mg/l	lbs			
r. Cobalt, Total (7440-48-4)	X		<0.05	ND					1	mg/l	lbs			
s. Iron, Total (7439-89-6)	X		5.8	0.29					1	mg/l	lbs			
t. Magnesium, Total (7439-95-4)	X		0.9	0.045					1	mg/l	lbs			
u. Molybdenum, Total (7439-98-7)	X		0.05	ND					1	mg/l	lbs			
v. Manganese, Total (7439-96-5)	X		5.5	0.275					1	mg/l	lbs			
w. Tin, Total (7440-31-5)	X		0.1	ND					1	mg/l	lbs			
x. Titanium, Total (7440-32-6)	X		0.05	ND					1	mg/l	lbs			

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INUED FROM PAGE 3 OF FORM 2-C

2-C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

POLLUTANT NUMBER (available)	2. MARK 'X'			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	A. TEST- ING RE- QUIR- ED	B. BE- LIEVED PRE- SENT	C. BE- LIEVED AB- SENT	8. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)		d. NO. OF ANAL- YSES	a. CONCENTRATION	b. MASS	8. LONG TERM AVERAGE VALUE		b. NO. OF ANAL- YSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
ARS, CYANIDE, AND TOTAL PHENOLS															
Antimony, (7440-36-0)	X			<0.1	ND					1	mg/l	lbs			
Arsenic, Total (7440-38-2)	X			<0.1	ND					1	mg/l	lbs			
Beryllium, (7440-41-7)	X			<0.005	ND					1	mg/l	lbs			
Cadmium, (7440-43-9)	X			<0.05	ND					1	mg/l	lbs			
Chromium, (7440-47-3)	X			<0.05	ND					1	mg/l	lbs			
Copper, Total (7440-50-8)	X			<0.05	ND					1	mg/l	lbs			
Lead, Total (7440-92-1)	X			<0.1	ND					1	mg/l	lbs			
Mercury, Total (7440-97-6)	X			<0.0005	ND					1	mg/l	lbs			
Nickel, Total (7440-02-0)	X			<0.05	ND					1	mg/l	lbs			
Selenium, (7782-49-2)	X			<0.1	ND					1	mg/l	lbs			
Silver, Total (7440-22-4)	X			<0.05	ND					1	mg/l	lbs			
Thallium, (7440-28-0)	X			<0.1	ND					1	mg/l	lbs			
Zinc, Total (7440-66-6)	X			<0.05	ND					1	mg/l	lbs			
Cyanide, (57-12-5)	X			0.02	0.001					1	mg/l	lbs			
Phenols,	X			0.25	0.013	0.25	0.013	0.156	0.005	23	mg/l	lbs			

4-D

8-Tetra- odibenzo-P- in (1764-01-6)			X	DESCRIBE RESULTS
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POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	a. TEST- ING RE- QUIR- ED	b. BE- LIEVED PRE- SENT	c. BE- LIEVED AB- SENT	B. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANAL- YSES	B. CONCENTRATION	b. MASS	B. LONG TERM AVERAGE VALUE		b. NO. OF ANAL- YSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
IC/MS FRACTION – VOLATILE COMPOUNDS															
V. Acrolein 107-02-8)	X			< 200	ND					1	ug/l	lbs			
V. Acrylonitrile 107-13-1)	X			< 200	ND					1	ug/l	lbs			
V. Benzene 71-43-2)	X			< 2	ND					1	ug/l	lbs			
V. Bis (Chloro- ethyl) Ether 542-88-1)	X			< 0.5	ND					1	ug/l	lbs			
V. Bromoform 75-25-2)	X			< 1	ND					1	ug/l	lbs			
V. Carbon tetrachloride 56-23-5)	X			< 0.5	ND					1	ug/l	lbs			
V. Chlorobenzene 108-90-7)	X			< 0.5	ND					1	ug/l	lbs			
V. Chlorodi- methylmethane 124-48-1)	X			< 0.5	ND					1	ug/l	lbs			
V. Chloroethane 75-00-3)	X			< 10	ND					1	ug/l	lbs			
OV. 2-Chloro- ethylvinyl Ether 110-75-8)	X			< 50	ND					1	ug/l	lbs			
1V. Chloroform 37-66-3)	X			< 0.5	ND					1	ug/l	lbs			
2V. Dichloro- methylmethane 75-27-4)	X			< 0.5	ND					1	ug/l	lbs			
3V. Dichloro- difluoromethane 75-71-8)	X			< 5	ND					1	ug/l	lbs			
4V. 1,1-Dichloro- ethane (75-34-3)	X			< 0.5	ND					1	ug/l	lbs			
5V. 1,2-Dichloro- ethane (107-06-2)	X			< 1	ND					1	ug/l	lbs			
6V. 1,1-Dichloro- ethylene (75-35-4)	X			< 0.5	ND					1	ug/l	lbs			
7V. 1,2-Dichloro- propane (78-87-5)	X			< 1	ND					1	ug/l	lbs			
8V. 1,3-Dichloro- propylene (542-75-6)	X			< 0.5	ND					1	ug/l	lbs			
9V. Ethylbenzene 100-41-4)	X			< 1	ND					1	ug/l	lbs			
OV. Methyl formide (74-83-9)	X			< 10	ND					1	ug/l	lbs			
1V. Methyl chloride (74-87-3)	X			< 10	ND					1	ug/l	lbs			

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EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
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POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	B. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	B. CONCENTRATION	D. MASS	B. LONG TERM AVERAGE VALUE		D. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
MS FRACTION – VOLATILE COMPOUNDS (continued)															
Methylene chloride (75-09-2)	X			<2	ND					1	ug/l	lbs			
1,1,2,2-Tetrachloroethane (4-5)	X			<0.5	ND					1	ug/l	lbs			
Tetrachloroethene (127-18-4)	X			<0.5	ND					1	ug/l	lbs			
Toluene (88-3)	X			1	<0.0001					1	ug/l	lbs			
1,2-Trans-dichloroethylene (60-5)	X			<0.5	ND					1	ug/l	lbs			
1,1,1-Trichloroethane (5-6)	X			<0.5	ND					1	ug/l	lbs			
1,1,2-Trichloroethane (0-5)	X			<0.5	ND					1	ug/l	lbs			
Trichloroethene (79-01-6)	X			<0.5	ND					1	ug/l	lbs			
Trichloromethane (9-4)	X			<1	ND					1	ug/l	lbs			
Vinyl chloride (75-01-4)	X			<10	ND					1	ug/l	lbs			
MS FRACTION – ACID COMPOUNDS															
2-Chlorophenol (7-8)	X			<1	ND					1	ug/l	lbs			
2,4-Dichlorophenol (120-83-2)	X			<1	ND					1	ug/l	lbs			
2,4-Dimethylphenol (105-67-9)	X			<2	ND					1	ug/l	lbs			
2,6-Dinitrophenol (534-52-1)	X			<5	ND					1	ug/l	lbs			
2,4-Dinitrophenol (51-28-5)	X			<50	ND					1	ug/l	lbs			
2-Nitrophenol (5-5)	X			<10	ND					1	ug/l	lbs			
2-Nitrophenol (02-7)	X			<100	ND					1	ug/l	lbs			
2-Chloro-Phenol (59-50-7)	X			<2	ND					1	ug/l	lbs			
2,4-Dichlorophenol (87-86-5)	X			<5	ND					1	ug/l	lbs			
Phenol (95-2)	X			<5	ND					1	ug/l	lbs			
2,4,6-Trinitrophenol (6-2)	X			<2	ND					1	ug/l	lbs			

CONTINUED FROM THE FRONT

POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	A. TEST- ING RE- QUIR- ED	D. BE- LIEVED PRE- SENT	C. BE- LIEVED AB- SENT	B. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVG. VALUE (if available)		d. NO. OF ANAL- YSES	a. CONCENTRATION	b. MASS	B. LONG TERM AVERAGE VALUE		b. NO. OF ANAL- YSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
C/MS FRACTION - BASE/NEUTRAL COMPOUNDS															
B. Acenaphthene (13-32-9)	X			< 1	ND					1	ug/l	lbs			
B. Acenaphthylene (108-96-8)	X			< 1	ND					1	ug/l	lbs			
B. Anthracene (120-12-7)	X			1	<0.0001					1	ug/l	lbs			
B. Benzidine (12-87-5)	X			< 200	ND					1	ug/l	lbs			
B. Benzo (a) anthracene (16-55-3)	X			< 3	ND					1	ug/l	lbs			
B. Benzo (a) pyrene (50-32-8)	X			< 5	ND					1	ug/l	lbs			
B. 3,4-Benzofluoranthene (105-99-2)	X			< 5	ND					1	ug/l	lbs			
B. Benzo (ghi) perylene (191-24-2)	X			< 5	ND					1	ug/l	lbs			
B. Benzo (k) fluoranthene (107-08-9)	X			< 5	ND					1	ug/l	lbs			
OB. Bis (2-Chlorophenoxy) Methane (111-91-1)	X			< 1	ND					1	ug/l	lbs			
1B. Bis (2-Chlorophenyl) Ether (111-44-4)	X			< 1	ND					1	ug/l	lbs			
1B. Bis (2-Chloroisopropyl) Ether (102-60-1)	X			< 1	ND					1	ug/l	lbs			
3B. Bis (2-Ethylhexyl) Phthalate (117-81-7)	X			< 2	ND					1	ug/l	lbs			
4B. 4-Bromophenyl Phenyl ether (101-55-3)	X			< 2	ND					1	ug/l	lbs			
5B. Butyl Benzyl phthalate (85-68-7)	X			< 5	ND					1	ug/l	lbs			
6B. 2-Chlorophthalene (11-58-7)	X			< 1	ND					1	ug/l	lbs			
7B. 4-Chlorophenyl Phenyl ether (7005-72-3)	X			< 1	ND					1	ug/l	lbs			
8B. Chrysene (118-01-9)	X			< 3	ND					1	ug/l	lbs			
9B. Dibenzo (a,h) anthracene (153-70-3)	X			< 5	ND					1	ug/l	lbs			
OB. 1,2-Dichlorobenzene (95-50-1)	X			< 1	ND					1	ug/l	lbs			
1B. 1,3-Dichlorobenzene (541-73-1)	X			< 1	ND					1	ug/l	lbs			

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
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POLLUTANT NO CAS NUMBER (available)	2. MARK 'X'			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	A. TEST ING RE- QUIR- ED	D. BE- LIEVED PRE- SENT	C. BE- LIEVED AB- SENT	B. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANAL- YSES	B. CONCENTRATION	b. MASS	B. LONG TERM AVERAGE VALUE		b. NO. OF ANAL- YSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
S FRACTION - BASE/NEUTRAL COMPOUNDS (continued)															
1,4-Dichloro- sine (106-46-7)	X			< 1	ND					1	ug/l	lbs			
3,3'-Dichloro- dine 4-1)	X			< 50	ND					1	ug/l	lbs			
Diethyl late 6-2)	X			< 5	ND					1	ug/l	lbs			
Dimethyl late 11-3)	X			< 1	ND					1	ug/l	lbs			
Di-N-Butyl late 4-2)	X			< 1	ND					1	ug/l	lbs			
2,4-Dinitro- ne (121-14-2)	X			< 5	ND					1	ug/l	lbs			
2,6-Dinitro- ne (606-20-2)	X			< 5	ND					1	ug/l	lbs			
Di-N-Octyl late 84-0)	X			< 2	ND					1	ug/l	lbs			
1,2-Diphenyl- zine (as Azo- ne) (122-66-7)	X			< 5	ND					1	ug/l	lbs			
Fluoranthene 44-0)	X			6	<0.0003					1	ug/l	lbs			
Fluorene 3-7)	X			< 1	ND					1	ug/l	lbs			
Hexachlorobenzene 1-1)	X			< 1	ND					1	ug/l	lbs			
Hexa- obutadiene 8-3)	X			< 2	ND					1	ug/l	lbs			
Hexachloro- pentadiene 7-4)	X			< 5	ND					1	ug/l	lbs			
Hexachloro- ie (67-72-1)	X			< 3	ND					1	ug/l	lbs			
Indeno 3-cd) Pyrene 39-5)	X			< 5	ND					1	ug/l	lbs			
Isophorone 9-1)	X			< 2	ND					1	ug/l	lbs			
Naphthalene 0-3)	X			< 1	ND					1	ug/l	lbs			
Nitrobenzene 5-3)	X			< 2	ND					1	ug/l	lbs			
N-Nitro- methylaniline 5-9)	X			< 50	ND					1	ug/l	lbs			
N-Nitrosodi- pylamine 64-7)	X			< 5	ND					1	ug/l	lbs			

CONTINUED FROM THE FRONT

POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	A. TEST ING. RE- QUIR- ED	B. BE- LIEVED PRE- SENT	C. BE- LIEVED AB- SENT	B. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANAL- YSES	B. CONCENTRATION	D. MASS	B. LONG TERM AVERAGE VALUE		D. NO. OF ANAL- YSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
C/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
IB. N-Nitro- diphenylamine 6-30-6)	X			< 5	ND					1	ug/l	lbs			
IB. Phenanthrene 5-01-8)	X			< 1	ND					1	ug/l	lbs			
B. Pyrene 29-00-0)	X			1	< 0.0005					1	ug/l	lbs			
IB. 1,2,4 - Tri- lorobenzene 20-82-1)	X			< 1	ND					1	ug/l	lbs			
C/MS FRACTION – PESTICIDES															
Aldrin 09-00-2)	X			< 3	ND					1	ug/l	lbs			
α-BHC 19-84-6)	X			< 5	ND					1	ug/l	lbs			
β-BHC 19-85-7)	X			< 5	ND					1	ug/l	lbs			
γ-BHC 3-89-9)	X			< 5	ND					1	ug/l	lbs			
δ-BHC 19-86-8)	X			< 5	ND					1	ug/l	lbs			
Chlordane 7-74-9)	X			< 50	ND					1	ug/l	lbs			
4,4'-DDT 0-29-3)	X			< 5	ND					1	ug/l	lbs			
4,4'-DDE 2-55-9)	X			< 5	ND					1	ug/l	lbs			
4,4'-DDD 2-54-8)	X			< 5	ND					1	ug/l	lbs			
P. Dieldrin 0-57-1)	X			< 5	ND					1	ug/l	lbs			
P. α-Endosulfan 15-29-7)	X			< 20	ND					1	ug/l	lbs			
P. β-Endosulfan 15-29-7)	X			< 20	ND					1	ug/l	lbs			
P. Endosulfan lfate 331-07-8)	X			< 20	ND					1	ug/l	lbs			
P. Endrin 2-20-8)	X			< 100	ND						ug/l	lbs			
P. Endrin dehyde 421-93-4)	X			< 100	ND					1	ug/l	lbs			
P. Heptachlor 3-44-8)	X			< 2	ND					1	ug/l	lbs			

Koppers003441

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
ORD027734359	001

Form Approved.
OMB No. 2040-0086
Approval expires 7-31-88

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	B. TEST ING RE- QUIR- ED	C. DE- LIVERED PRE- SENT	D. DE- LIVERED AB- SENT	B. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANAL- YSES	B. CONCENTRATION	D. MASS	B. LONG TERM AVERAGE VALUE		D. NO. OF ANAL- YSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024-57-3)	X			<5	ND					1	ug/l	lbs			
18P. PCB-1242 (53469-21-9)	X			<100	ND					1	ug/l	lbs			
19P. PCB-1254 (11097-69-1)	X			<100	ND					1	ug/l	lbs			
20P. PCB-1221 (11104-28-2)	X			<100	ND					1	ug/l	lbs			
21P. PCB-1232 (11141-16-5)	X			<100	ND					1	ug/l	lbs			
22P. PCB-1248 (12672-29-6)	X			<100	ND					1	ug/l	lbs			
23P. PCB-1260 (11096-82-5)	X			<100	ND					1	ug/l	lbs			
24P. PCB-1016 (12674-11-2)	X			<100	ND					1	ug/l	lbs			
25P. Toxaphene (8001-35-2)	X			<100	ND					1	ug/l	lbs			

PAGE V-9

**KOPPERS
INDUSTRIES**

FAX TRANSMITTAL

Koppers Industries, Inc.
7540 N.W. Saint Helens Road
Portland, OR 97210-3663Telephone: (503) 286-3681
FAX: (503) 286-3681TO: Bill SwearingenDATE: 9/19/94FROM: AmosTOTAL # OF PAGES: 2RE: DEQ/NPOES - Storm Water Permit's

Re the attached and my 8/17/94 mailing's to you — it
looks like my assumption's were correct. Please Review
and Advise ASAP, so I can get the permit issued.

IF INCOMPLETE OR POOR QUALITY TRANSMITTAL, PLEASE CALL 503-286-3681.

Note: See fax and supporting data that was sent
to Amos on 9/20/94!



Oregon

DEPARTMENT OF
ENVIRONMENTAL
QUALITY

NORTHWEST REGION

September 1, 1994

T J TURNER
GENERAL FOREMAN
KOPPERS INDUSTRIES
7540 NW ST HELENS ROAD
PORTLAND OR 97210-3663

Re: WQ-MULTNOMAH COUNTY
FILE NO 47430, PERMIT NO 101003
SITE VISIT

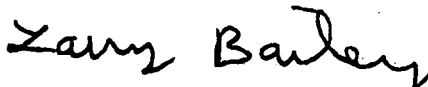
Dear Mr. Turner:

Thank you for your cooperation and time when I visited your facilities on August 2, 1994. Based on our conversation at that time, I am writing to confirm the following:

Due to the small number of vehicles washed on site and the absence of trailer wash water discharge, no wash water permit will be required at this time. Please be advised that if operations change or if the permit requirements are modified, one may be required in the future. Also, a permit will be required if wash water from the trailer wash facility is allowed to discharge to the storm drains.

It appears that your facility does need a storm water permit. While no compliance schedule has been set, be advised that the facility is currently in violation of the Clean Water Act. Please submit the permit application as soon as possible.

Sincerely,



Larry Bailey
Compliance Inspector

lb

cc: JR Sheetz
Paul Keiran
File



2020 SW Fourth Avenue
Suite 400
Portland, OR 97201-4987
(503) 229-5263 Voice/TDD
DBQ-1

Koppers003444

**KOPPERS
INDUSTRIES**

ENVIRONMENTAL SERVICES DEPARTMENT
436 Seventh Avenue-Pittsburgh, PA 15219-1800

DELIVER IMMEDIATELY TO:



AMOS KAMERER



PORTLAND

503-285-2831

6 PAGES FOLLOWS THE COVER PAGE!

MESSAGE:

Enclosed are some of the completed forms that was submitted back in 1992 for the Portland NPDES renewal application. Note the pertinent sections that I have circled. It seems to me that a stormwater permit is not needed. What's the inspector's problem?

Didn't you show him your NPDES application? Doesn't the permit clearly indicate stormwater and boiler blowdown?

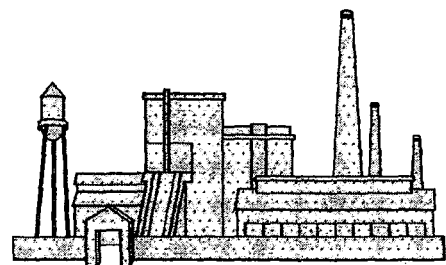
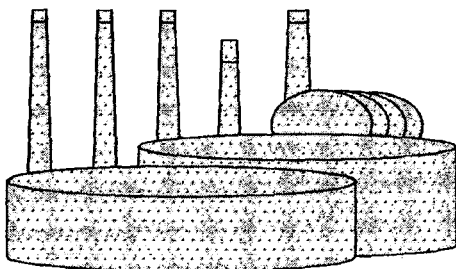
Any questions, call me.

Regards,

WES

p.s. YOU ARE NOT IN VIOLATION!!!

PHONE 412-227-2883 W. E. SWEARINGEN FAX 412-227-2423



YOUR PERMIT

Permit Number: 101003
Expiration Date: 11/30/97
File Number: 47430
Page 1 of 4 Pages

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

WASTE DISCHARGE PERMIT
Department of Environmental Quality
811 S.W. Sixth Avenue, Portland, Oregon 97204
Telephone: (503) 229-5696

Issued pursuant to ORS 468B.050 and The Federal Clean Water Act

ISSUED TO:

Koppers Industries, Inc.
7540 N.W. St. Helens Rd.
Portland, OR 97229

SOURCES COVERED BY THIS PERMIT:

Type of Waste	Outfall Number	Outfall Location
Tank Farm Runoff and Boiler Blowdown	001	R.M. 6.5

PLANT TYPE AND LOCATION:

Creosote Terminal
7540 N.W. St. Helens Rd.
Portland, Oregon

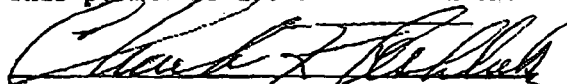
RECEIVING STREAM INFORMATION:

Basin: Willamette
Sub-basin: Lower Willamette
Hydro Code: 22--WILL 6.5 D
Receiving Stream: storm ditch to
Willamette River
County: Multnomah

EPA REFERENCE NO: OR-000077-9

Issued in response to Application No. 997220 received 7/14/92.

This permit is issued based on the land use findings in the permit record.



NOV 19 1992

Charles K. Ashbaker, Manager
Water Quality, Northwest Region

Date

PERMITTED ACTIVITIES

Until this permit expires or is modified or revoked, the permittee is authorized to construct, install, modify or operate a waste water collection, treatment, control and disposal system and discharge to public waters adequately treated waste waters only from the authorized discharge point or points established in Schedule A and only in conformance with all the requirements, limitations, and conditions set forth in the attached schedules as follows:

	Page
Schedule A - Waste Discharge Limitations not to be Exceeded..	2
Schedule B - Minimum Monitoring and Reporting Requirements...	3
Schedule C - Compliance Conditions and Schedules.....	-
Schedule D - Special Conditions.....	4
General Conditions.....	Attached

Unless authorized by another NPDES permit, each other direct and indirect waste discharge to public waters is prohibited.

KOPPERS INDUSTRIES

Koppers Industries, Inc.
436 Seventh Avenue
Pittsburgh, PA 15219-1800

July 9, 1992

Telephone: (412) 227-2001

Mr. Charles K. Ashbaker
Water Quality, Northwest Region
Department of Environmental Quality
Business Office
811 S.W. Sixth Avenue
Portland, OR 97204

EXPRESS MAIL

Re: NPDES Permit Renewal Application
Permit No. 100419
File No. 47430
Multnomah County

Dear Mr. Ashbaker:

Enclosed are completed application forms and check #3082179 in the amount of Eight Hundred Dollars (\$800.00 - \$50.00 filing fee and \$750.00 processing fee) for the renewal of the NPDES Permit for our Northwest Terminal.

Terminal operations have not changed significantly during the time covered by the current permit. No process wastewater is generated by terminal operations, consequently only non-contaminated storm water and boiler blowdown is discharged. We believe that the current permit limitations provide adequate protection to the environment and achieves a reasonable cost to benefits ratio. We encourage the agency to reissue the existing permit without major modifications.

If you have any questions please contact John Oxford, Plant Manager, at 503-286-3681 or me at 412-227-2883 or write me at the above address.

Sincerely yours,

W. E. Swearingen
William E. Swearingen,
Manager, Environmental Programs

Enclosures

cc: John A. Oxford, Northwest Terminal

bcc: L. F. Flaherty, K-1750
J. R. Batchelder, K-1701

Koppers003447

RETURN APPLICATION TO:
DEPARTMENT OF ENVIRONMENTAL QUALITY
BUSINESS OFFICE
811 S.W. Sixth Avenue
Portland, OR 97234
(503) 229-3309

APPLICATION
FOR RENEWAL OF
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT (NPDES-R)
STATE OF OREGON

DEQ USE ONLY
Appl. No.:
File No.: 47430
Received:
WQ EPA No.: OR-

A. REFERENCE INFORMATION

Koppers Industries, Inc. <small>Official Name of Applicant (Owner)</small>			Present Permit No.: <u>100419</u>																				
Northwest Terminal <small>Facility Name</small>			Date Expires: <u>11/30/92</u>																				
7540 Northwest Saint Helen's Road			Enter Site Location by Latitude and Longitude:																				
Portland	OR	97229	<table border="1" style="width:100%"> <tr> <th colspan="3">LATITUDE</th> <th colspan="3">LONGITUDE</th> </tr> <tr> <td>1. Deg.</td> <td>2. Min.</td> <td>3. Sec.</td> <td>1. Deg.</td> <td>2. Min.</td> <td>3. Sec.</td> </tr> <tr> <td>45</td> <td>34</td> <td>38</td> <td>122</td> <td>45</td> <td>32</td> </tr> </table>			LATITUDE			LONGITUDE			1. Deg.	2. Min.	3. Sec.	1. Deg.	2. Min.	3. Sec.	45	34	38	122	45	32
LATITUDE			LONGITUDE																				
1. Deg.	2. Min.	3. Sec.	1. Deg.	2. Min.	3. Sec.																		
45	34	38	122	45	32																		
<small>City</small>	<small>State</small>	<small>Zip</small>																					
John A. Oxford <small>Responsible Official</small>			Alternate Responsible Official or Chief Operator																				
Plant Manager			Title																				
7540 N.W. St. Helen's Road Portland, OR 97229 <small>Address or Location</small>			(503) 286-3681 <small>Phone</small>																				
Description of activities requiring a permit from the Department: (Check all that apply.)																							
<input type="checkbox"/> Construct, install or modify waste collection, treatment, or disposal facilities:																							
<input type="checkbox"/> Operate waste collection, treatment, or disposal facilities.																							
<input type="checkbox"/> Discharge treated wastewaters into the waters of _____																							
<input checked="" type="checkbox"/> (Other) Discharge stormwater to Willamette River																							

B. GENERAL QUESTIONS

1. Have the treatment or disposal methods employed, as indicated in previous applications, been altered in any way since the last application was submitted? ☐ Yes ☒ No (If yes, explain.)

2. Has the quantity or quality of wastes discharged, as indicated in previous applications, been significantly changed in any way since the last application was submitted? ☐ Yes ☒ No (If yes, explain.)

C. SPECIAL QUESTIONS AND REQUESTED INFORMATION

1. If any changes in operations or waste quantity or quality are anticipated in the near future, please attach an explanation or proposal.

2. Please attach a brief report which indicates your progress in meeting the requirements and limitations of your present permit.

I HEREBY CERTIFY THAT THE INFORMATION CONTAINED IN THIS APPLICATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Lawrence F. Flaherty Vice President 7/7/92
Signature of Owner Title Date
(Or Legally Authorized Representative)

INSTRUCTION - PERMIT RENEWAL APPLICATION

- A. Reference Information: Complete the required information in detail. If there has been a name change, address change or change in personnel since the last application, please make a special note to that effect.
- B. General Questions: If more space is needed than provided on the application form, please attached as many additional pages as necessary in order to supply whatever explanation or diagrams are needed to update the treatment and disposal methods used and the characteristics of the waste discharged or otherwise disposed.
- C. Special Questions and Requested Information:
 - 1. Please elaborate on any proposed expansions, cutbacks, improvements or changes of any kind which will or may affect the quantity or quality of pollutants discharged.
 - 2. Each condition of your present permit should be reviewed and an assessment made as to the success you have had in meeting the requirements and limitations.

Signature on Application

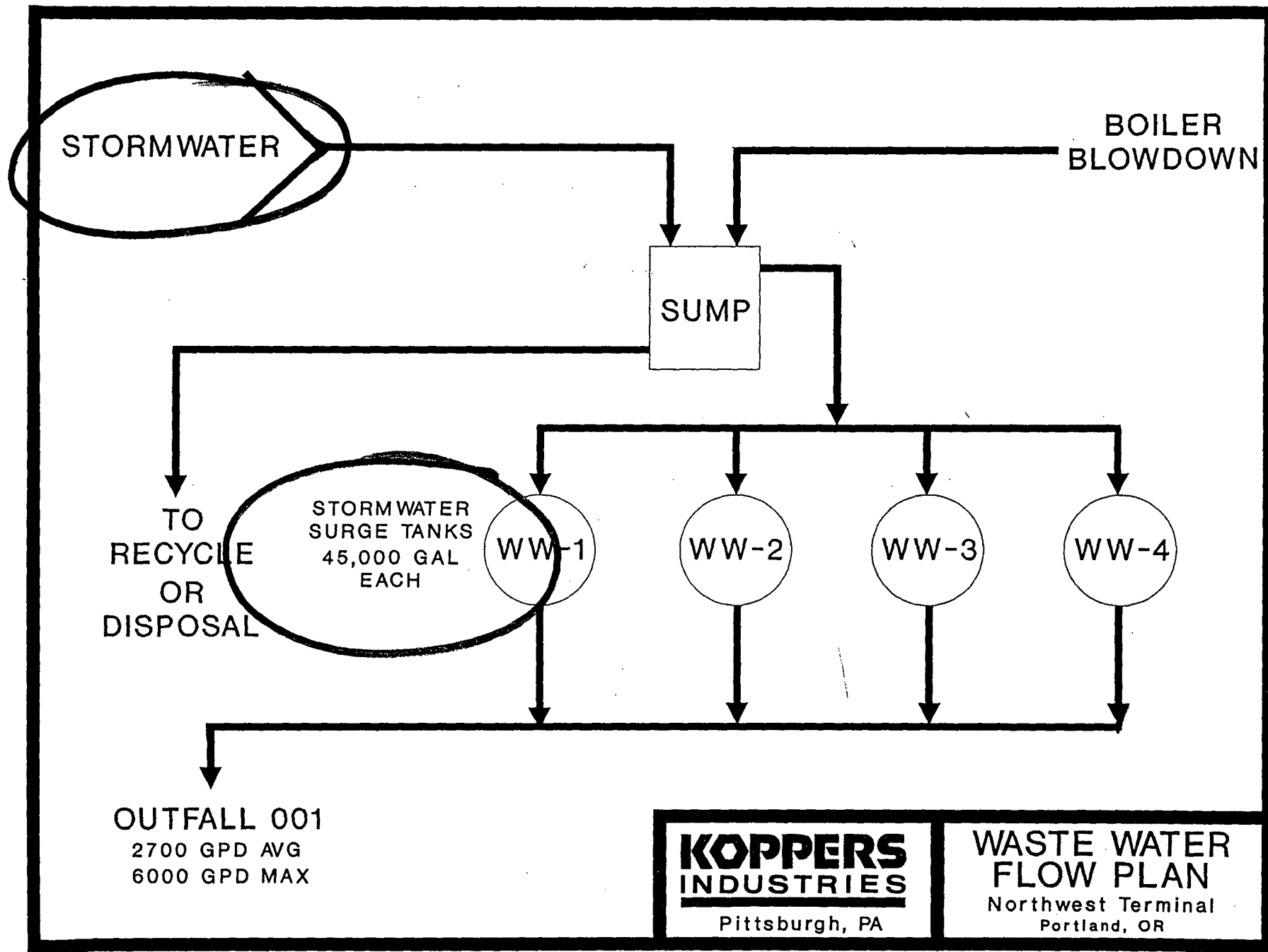
The person who signs the application form will often be the applicant himself; when another person signs on behalf of the applicant, his title or relationship to the applicant should be shown in the space provided. In all cases, the persons signing the form should be authorized to do so by the applicant. An application submitted by a corporation must be signed by a principal executive officer of at least the level of vice president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge(s) described in the form originate. In the case of a partnership or a sole proprietorship, the application must be signed by a general partner or the proprietor, respectively. In the case of a municipal, State, Federal or other public facility, the application must be signed by either a principal executive officer, ranking elected official or other duly authorized employee.

Other Instructions

Submit this application as soon as possible. It should be submitted at least 130 days prior to the expiration of your present permit.

All NPDES Permit Applications are to be submitted to:

Department of Environmental quality
Business Office
811 S.W. Sixth Avenue
Portland, OR 97204



KOPPERS
INDUSTRIES
Pittsburgh, PA

WASTE WATER
FLOW PLAN
Northwest Terminal
Portland, OR

Koppers003450

ORD027734359

[illegible]

CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☒ YES (complete the following table)☐ NO (go to Section III)

1. OUTFALL NUMBER (list)	2. OPERATION(s) CONTRIBUTING FLOW (list)	3. FREQUENCY		4. FLOW						5. DUR- ATION (in days)
		a. DAYS PER WEEK (specify average)	b. MONTHS PER YEAR (specify average)	a. FLOW RATE (in mgd)		b. TOTAL VOLUME (specify with units)				
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY			
001	Stormwater	0.5	9	2.7	6.0	82.5/mo	180/mo	244		

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☒ YES (complete Item III-B)☐ NO (go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measure of operation)?

☐ YES (complete Item III-C)☒ NO (go to Section IV)

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION			2. AFFECTED OUTFALLS (list outfall numbers)
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. (specify)	

IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operation of waste-water treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☐ YES (complete the following table)☒ NO (go to Item IV-B)

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COM- PLIANCE DATE	
	a. NO.	b. SOURCE OF DISCHARGE		a. RE- QUIRED	b. PRO- JECTED

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction.

☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☒ YES (complete the following table)

☐ NO (go to Section III)

1. OUTFALL NUMBER (list)	2. OPERATION(s) CONTRIBUTING FLOW (list)	3. FREQUENCY		4. FLOW					
		a. DAYS PER WEEK (specify average)	b. MONTHS PER YEAR (specify average)	a. FLOW RATE (in mgd)		b. TOTAL VOLUME (specify with units)		c. DUR- ATION (in days)	
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY		
001	Stormwater	0.5	9	2.7	6.0	82.5/mo	180/mo	244	

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☒ YES (complete Item III-B)

☐ NO (to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measure of operation)?

☐ YES (complete Item III-C)

☒ NO (go to Section IV)

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION			2. AFFECTED OUTFALLS (list outfall numbers)
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. (specify)	

IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operation of waste-water treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☐ YES (complete the following table)

☒ NO (go to Item IV-B)

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
	a. NO.	b. SOURCE OF DISCHARGE		a. RE- QUIRED	b. PRO- JECTED

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction. ☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

CONTINUED FROM PAGE 2

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided.

NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
Quinoline	Coal Tar Constituent		

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☒ YES (list all such pollutants below)

☐ NO (go to Item VI-B)

Total Phenols
Benzene
Toluene
Phenols
Acenaphthene
Acenaphthylene
Chrysene
Fluoranthene
Fluorene
Naphthalene
Phenanthrene
Pyrene

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ YES (identify the test(s) and describe their purposes below)

☒ NO (go to Section VIII)

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?


☒ YES (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)

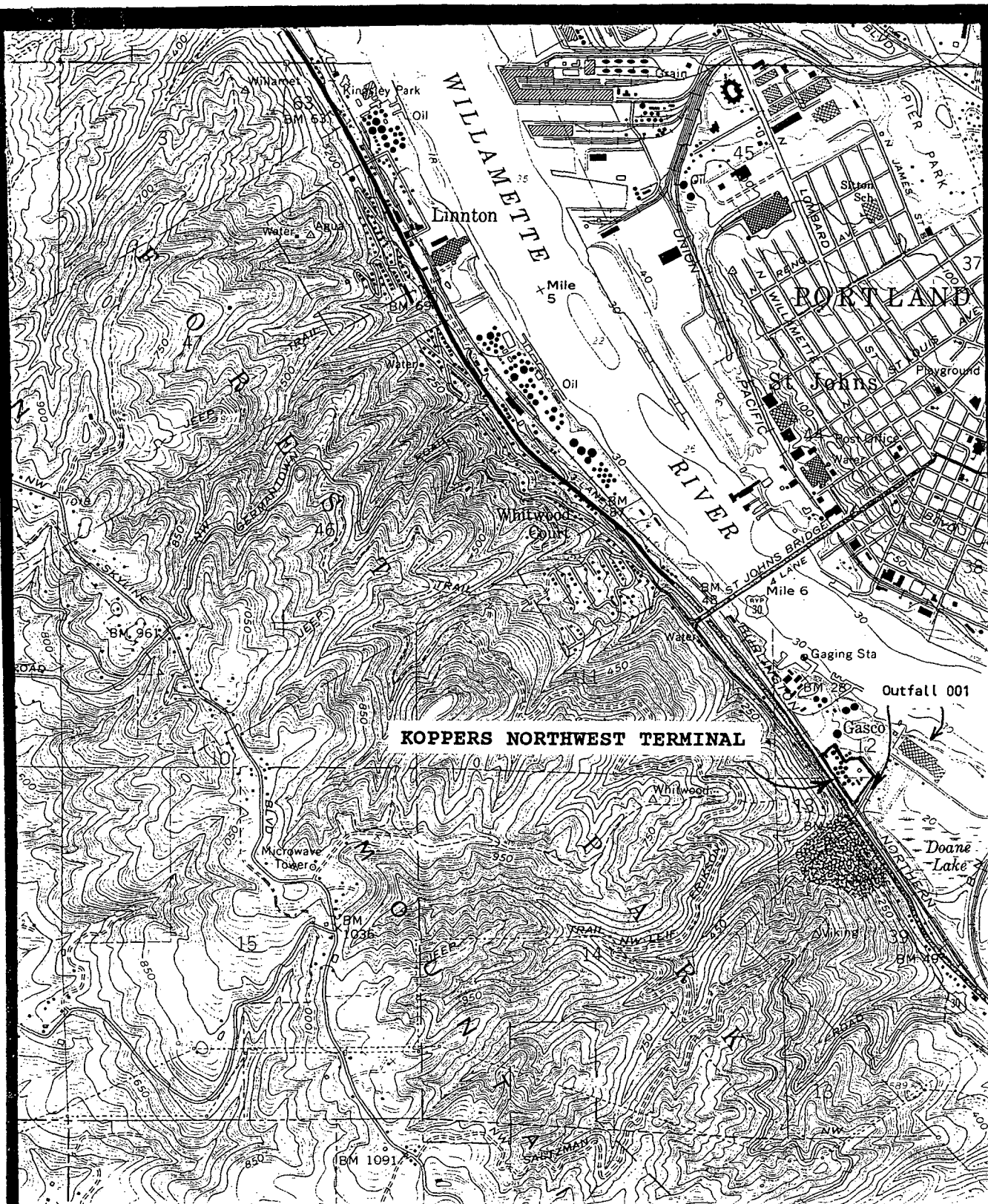
☐ NO (go to Section IX)

A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
Coffey Laboratories, Inc.	12423 N.E. Whitaker Way Portland, OR 97230	(503) 254-1794	Form 2C Section V Parts A,B,C Full Scan

IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. NAME & OFFICIAL TITLE (type or print)  Lawrence F. Flaherty	B. PHONE NO. (area code & no.) (412) 227-2304
C. SIGNATURE Vice President	D. DATE SIGNED 7/7/92



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PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)

ORD027734359

Form Approved.
OMB No. 2040-0086
Approval expires 7-31-88

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO.
001

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT						3. UNITS (specify if blank)		4. INTAKE (optional)			
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Biochemical Oxygen Demand (BOD)	28						1	mg/l	lbs			
b. Chemical Oxygen Demand (COD)	50						1	mg/l	lbs			
c. Total Organic Carbon (TOC)	19						1	mg/l	lbs			
d. Total Suspended Solids (TSS)	13						1	mg/l	lbs			
e. Ammonia (as N)	0.3						1	mg/l	lbs			
f. Flow	VALUE 6000		VALUE 6000		VALUE 4000		22	N/A	gal	VALUE		
g. Temperature (winter)	VALUE 12		VALUE 12		VALUE 10		3	°C		VALUE		
h. Temperature (summer)	VALUE 26		VALUE 25		VALUE 20		3	°C		VALUE		
i. pH	MINIMUM 6.0	MAXIMUM 7.0	MINIMUM 6.0	MAXIMUM 6.6	<div></div>		23	STANDARD UNITS		<div></div>		

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (If available)	2. MARK 'X'		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (If available)		c. LONG TERM AVRG. VALUE (If available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	b. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Bromide (24959-67-9)		X	<0.5	ND					1	mg/l	lbs			
b. Chloride Total Residual		X	<0.5	ND					1	mg/l	lbs			
c. Color	X		300	N/A					1	Pt-Co	N/A			
d. Fecal Coliform	X		114	N/A					1	Colonies 100 ml	N/A			
e. Fluoride (16984-48-8)	X		0.2	0.01					1	mg/l	lbs			
f. Nitrate- Nitrite (as N)	X		<0.3	ND					1	mg/l	lbs			

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	b. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)	X		0.8	0.04					1	mg/l	lbs			
h. Oil and Grease	X		1.7	0.08	1.7	0.08	0.85	0.03	23	mg/l	lbs			
i. Phosphorus (as P), Total (7723-14-0)	X		0.2	0.01					1	mg/l	lbs			
j. Radioactivity														
(1) Alpha Total		X	N/A	N/A					0	N/A	N/A			
(2) Beta Total		X	N/A	N/A					0	N/A	N/A			
(3) Radium, Total		X	N/A	N/A					0	N/A	N/A			
(4) Radium 226, Total		X	N/A	N/A					0	N/A	N/A			
k. Sulfate (as SO ₄) (14808-79-8)	X		8.8	0.44					1	mg/l	lbs			
l. Sulfide (as S)	X		0.03	0.0015					1	mg/l	lbs			
m. Sulfite (as SO ₃) (14265-45-3)	X		<5.0	ND					1	mg/l	lbs			
n. Surfactants	X		0.72	0.036					1	mg/l	lbs			
o. Aluminum, Total (7429-90-5)	X		<0.1	ND					1	mg/l	lbs			
p. Barium, Total (7440-39-3)	X		0.017	<0.001					1	mg/l	lbs			
q. Boron, Total (7440-42-8)	X		0.1	0.005					1	mg/l	lbs			
r. Cobalt, Total (7440-48-4)	X		<0.05	ND					1	mg/l	lbs			
s. Iron, Total (7439-89-6)	X		5.8	0.29					1	mg/l	lbs			
t. Magnesium, Total (7439-95-4)	X		0.9	0.045					1	mg/l	lbs			
u. Molybdenum, Total (7439-98-7)	X		0.05	ND					1	mg/l	lbs			
v. Manganese, Total (7439-96-5)	X		5.5	0.275					1	mg/l	lbs			
w. Tin, Total (7440-31-5)	X		0.1	ND					1	mg/l	lbs			
x. Titanium, Total (7440-32-6)	X		0.05	ND					1	mg/l	lbs			

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
ORD027734359	001

Form Approved.
OMB No. 2040-0086
Approval expires 7-31-88

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (*secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions*), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (*all 7 pages*) for each outfall. See instructions for additional details and requirements.

POLLUTANT AND CAS NUMBER (If available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TEST REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)	X			<0.1	ND					1	mg/l	lbs			
1M. Arsenic, Total (7440-38-2)	X			<0.1	ND					1	mg/l	lbs			
1M. Beryllium, Total (7440-41-7)	X			<0.005	ND					1	mg/l	lbs			
1M. Cadmium, Total (7440-43-9)	X			<0.05	ND					1	mg/l	lbs			
1M. Chromium, Total (7440-47-3)	X			<0.05	ND					1	mg/l	lbs			
1M. Copper, Total (7440-50-8)	X			<0.05	ND					1	mg/l	lbs			
1M. Lead, Total (7439-92-1)	X			<0.1	ND					1	mg/l	lbs			
1M. Mercury, Total (7439-97-6)	X			<0.0005	ND					1	mg/l	lbs			
1M. Nickel, Total (7440-02-0)	X			<0.05	ND					1	mg/l	lbs			
10M. Selenium, Total (7782-49-2)	X			<0.1	ND					1	mg/l	lbs			
11M. Silver, Total (7440-22-4)	X			<0.05	ND					1	mg/l	lbs			
12M. Thallium, Total (7440-28-0)	X			<0.1	ND					1	mg/l	lbs			
13M. Zinc, Total (7440-66-6)	X			<0.05	ND					1	mg/l	lbs			
14M. Cyanide, Total (57-12-5)	X			0.02	0.001					1	mg/l	lbs			
15M. Phenols, Total	X			0.25	0.013	0.25	0.013	0.156	0.005	23	mg/l	lbs			
DIOXIN															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TEST- ING RE- QUIR- ED	b. SE- LIEVED PRE- SENT	c. SE- LIEVED AB- SENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANAL- YSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANAL- YSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)	X			< 200	ND					1	ug/l	lbs			
2V. Acrylonitrile (107-13-1)	X			< 200	ND					1	ug/l	lbs			
3V. Benzene (71-43-2)	X			< 2	ND					1	ug/l	lbs			
4V. Bis (Chloro- methyl) Ether (542-88-1)	X			< 0.5	ND					1	ug/l	lbs			
5V. Bromoform (75-25-2)	X			< 1	ND					1	ug/l	lbs			
6V. Carbon Tetrachloride (56-23-5)	X			< 0.5	ND					1	ug/l	lbs			
7V. Chlorobenzene (108-90-7)	X			< 0.5	ND					1	ug/l	lbs			
8V. Chlorodi- bromomethane (124-48-1)	X			< 0.5	ND					1	ug/l	lbs			
9V. Chloroethane (75-00-3)	X			< 10	ND					1	ug/l	lbs			
10V. 2-Chloro- ethylvinyl Ether (110-75-8)	X			< 50	ND					1	ug/l	lbs			
11V. Chloroform (67-66-3)	X			< 0.5	ND					1	ug/l	lbs			
12V. Dichloro- bromomethane (75-27-4)	X			< 0.5	ND					1	ug/l	lbs			
13V. Dichloro- difluoromethane (75-71-8)	X			< 5	ND					1	ug/l	lbs			
14V. 1,1-Dichloro- ethane (75-34-3)	X			< 0.5	ND					1	ug/l	lbs			
15V. 1,2-Dichloro- ethane (107-06-2)	X			< 1	ND					1	ug/l	lbs			
16V. 1,1-Dichloro- ethylene (75-35-4)	X			< 0.5	ND					1	ug/l	lbs			
17V. 1,2-Dichloro- propane (78-87-5)	X			< 1	ND					1	ug/l	lbs			
18V. 1,3-Dichloro- propylene (542-75-6)	X			< 0.5	ND					1	ug/l	lbs			
19V. Ethylbenzene (100-41-4)	X			< 1	ND					1	ug/l	lbs			
20V. Methyl Bromide (74-83-9)	X			< 10	ND					1	ug/l	lbs			
21V. Methyl Chloride (74-87-3)	X			< 10	ND					1	ug/l	lbs			

ONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TEST-ING RE-QUIRED	b. BELIEVED PRE-SENT	c. BELIEVED AB-SENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANAL-YES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANAL-YES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (continued)															
22V. Methylene Chloride (75-09-2)	X			<2	ND					1	ug/l	lbs			
23V. 1,1,2,2-Tetrachloroethane (79-34-5)	X			<0.5	ND					1	ug/l	lbs			
24V. Tetrachloroethylene (127-18-4)	X			<0.5	ND					1	ug/l	lbs			
25V. Toluene (108-88-3)	X			1	<0.0001					1	ug/l	lbs			
26V. 1,2-Trans-Dichloroethylene (156-60-5)	X			<0.5	ND					1	ug/l	lbs			
27V. 1,1,1-Trichloroethane (71-55-6)	X			<0.5	ND					1	ug/l	lbs			
28V. 1,1,2-Trichloroethane (79-00-5)	X			<0.5	ND					1	ug/l	lbs			
29V. Trichloroethylene (79-01-6)	X			<0.5	ND					1	ug/l	lbs			
30V. Trichlorofluoromethane (75-69-4)	X			<1	ND					1	ug/l	lbs			
31V. Vinyl Chloride (75-01-4)	X			<10	ND					1	ug/l	lbs			
GC/MS FRACTION – ACID COMPOUNDS															
32A. 2-Chlorophenol (95-57-8)	X			<1	ND					1	ug/l	lbs			
33A. 2,4-Dichlorophenol (120-83-2)	X			<1	ND					1	ug/l	lbs			
34A. 2,4-Dimethylphenol (105-67-9)	X			<2	ND					1	ug/l	lbs			
35A. 4,6-Dinitro-O-cresol (534-52-1)	X			<5	ND					1	ug/l	lbs			
36A. 2,4-Dinitrophenol (51-28-5)	X			<50	ND					1	ug/l	lbs			
37A. 2-Nitrophenol (88-75-5)	X			<10	ND					1	ug/l	lbs			
38A. 4-Nitrophenol (100-02-7)	X			<100	ND					1	ug/l	lbs			
39A. P-Chloro-M-cresol (59-50-7)	X			<2	ND					1	ug/l	lbs			
40A. Pentachlorophenol (87-86-5)	X			<5	ND					1	ug/l	lbs			
41A. Phenol (108-95-2)	X			<5	ND					1	ug/l	lbs			
42A. 2,4,6-Trichlorophenol (88-06-2)	X			<2	ND					1	ug/l	lbs			

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	B. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		E. LONG TERM AVG. VALUE (if available)		F. NO. OF ANALYSES	B. CONCENTRATION	D. MASS	G. LONG TERM AVERAGE VALUE		D. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)	X			< 1	ND					1	ug/l	lbs			
2B. Acenaphthylene (208-96-8)	X			< 1	ND					1	ug/l	lbs			
3B. Anthracene (120-12-7)	X			1	<0.0001					1	ug/l	lbs			
4B. Benzidine (92-87-5)	X			< 200	ND					1	ug/l	lbs			
5B. Benzo (a) Anthracene (56-55-3)	X			< 3	ND					1	ug/l	lbs			
6B. Benzo (a) Pyrene (50-32-8)	X			< 5	ND					1	ug/l	lbs			
7B. 3,4-Benzo-fluoranthene (205-99-2)	X			< 5	ND					1	ug/l	lbs			
8B. Benzo (ghi) Perylene (191-24-2)	X			< 5	ND					1	ug/l	lbs			
9B. Benzo (k) Fluoranthene (207-08-9)	X			< 5	ND					1	ug/l	lbs			
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)	X			< 1	ND					1	ug/l	lbs			
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)	X			< 1	ND					1	ug/l	lbs			
12B. Bis (2-Chloroisopropyl) Ether (102-60-1)	X			< 1	ND					1	ug/l	lbs			
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)	X			< 2	ND					1	ug/l	lbs			
14B. 4-Bromophenyl Phenyl Ether (101-55-3)	X			< 2	ND					1	ug/l	lbs			
15B. Butyl Benzyl Phthalate (85-68-7)	X			< 5	ND					1	ug/l	lbs			
16B. 2-Chloronaphthalene (91-58-7)	X			< 1	ND					1	ug/l	lbs			
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)	X			< 1	ND					1	ug/l	lbs			
18B. Chrysene (218-01-9)	X			< 3	ND					1	ug/l	lbs			
19B. Dibenzo (a,h) Anthracene (53-70-3)	X			< 5	ND					1	ug/l	lbs			
20B. 1,2-Dichlorobenzene (95-50-1)	X			< 1	ND					1	ug/l	lbs			
21B. 1,3-Dichlorobenzene (541-73-1)	X			< 1	ND					1	ug/l	lbs			

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	8. MAXIMUM DAILY VALUE		d. MAXIMUM 30 DAY VALUE (if available)		e. LONG TERM AVG. VALUE (if available)		d. NO. OF ANALYSES	8. CONCENTRATION	b. MASS	9. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichlorobenzene (106-46-7)	X			< 1	ND					1	ug/l	lbs			
23B. 3,3'-Dichlorobenzidine (91-94-1)	X			< 50	ND					1	ug/l	lbs			
24B. Diethyl Phthalate (84-66-2)	X			< 5	ND					1	ug/l	lbs			
25B. Dimethyl Phthalate (131-11-3)	X			< 1	ND					1	ug/l	lbs			
26B. Di-N-Butyl Phthalate (84-74-2)	X			< 1	ND					1	ug/l	lbs			
27B. 2,4-Dinitrotoluene (121-14-2)	X			< 5	ND					1	ug/l	lbs			
28B. 2,6-Dinitrotoluene (606-20-2)	X			< 5	ND					1	ug/l	lbs			
29B. Di-N-Octyl Phthalate (117-84-0)	X			< 2	ND					1	ug/l	lbs			
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)	X			< 5	ND					1	ug/l	lbs			
31B. Fluoranthene (206-44-0)	X			6	<0.0003					1	ug/l	lbs			
32B. Fluorene (86-73-7)	X			< 1	ND					1	ug/l	lbs			
33B. Hexachlorobenzene (118-74-1)	X			< 1	ND					1	ug/l	lbs			
34B. Hexachlorobutadiene (87-68-3)	X			< 2	ND					1	ug/l	lbs			
35B. Hexachlorocyclopentadiene (77-47-4)	X			< 5	ND					1	ug/l	lbs			
36B. Hexachloroethane (67-72-1)	X			< 3	ND					1	ug/l	lbs			
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)	X			< 5	ND					1	ug/l	lbs			
38B. Isophorone (78-59-1)	X			< 2	ND					1	ug/l	lbs			
39B. Naphthalene (91-20-3)	X			< 1	ND					1	ug/l	lbs			
40B. Nitrobenzene (98-95-3)	X			< 2	ND					1	ug/l	lbs			
41B. N-Nitrosodimethylamine (62-75-9)	X			< 50	ND					1	ug/l	lbs			
42B. N-Nitrosodi-N-Propylamine (621-64-7)	X			< 5	ND					1	ug/l	lbs			

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	b. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	b. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitrosodiphenylamine (86-30-6)	X			< 5	ND					1	ug/l	lbs			
44B. Phenanthrene (85-01-8)	X			< 1	ND					1	ug/l	lbs			
45B. Pyrene (129-00-0)	X			1	< 0.0005					1	ug/l	lbs			
46B. 1,2,4 - Tri-chlorobenzene (120-82-1)	X			< 1	ND					1	ug/l	lbs			
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)	X			< 3	ND					1	ug/l	lbs			
2P. α -BHC (319-84-6)	X			< 5	ND					1	ug/l	lbs			
3P. β -BHC (319-85-7)	X			< 5	ND					1	ug/l	lbs			
4P. γ -BHC (58-89-9)	X			< 5	ND					1	ug/l	lbs			
5P. δ -BHC (319-86-8)	X			< 5	ND					1	ug/l	lbs			
6P. Chlordane (57-74-9)	X			< 50	ND					1	ug/l	lbs			
7P. 4,4'-DDT (50-29-3)	X			< 5	ND					1	ug/l	lbs			
8P. 4,4'-DDE (72-55-9)	X			< 5	ND					1	ug/l	lbs			
9P. 4,4'-DDD (72-54-8)	X			< 5	ND					1	ug/l	lbs			
10P. Dieldrin (60-57-1)	X			< 5	ND					1	ug/l	lbs			
11P. α -Endosulfan (115-29-7)	X			< 20	ND					1	ug/l	lbs			
12P. β -Endosulfan (115-29-7)	X			< 20	ND					1	ug/l	lbs			
13P. Endosulfan Sulfate (1031-07-8)	X			< 20	ND					1	ug/l	lbs			
14P. Endrin (72-20-8)	X			< 100	ND					1	ug/l	lbs			
15P. Endrin Aldehyde (7421-93-4)	X			< 100	ND					1	ug/l	lbs			
16P. Heptachlor (76-44-8)	X			< 2	ND					1	ug/l	lbs			

CONTINUED FROM PAGE V-8

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
ORD027734359	001

Form Approved.
OMB No. 2040-0086
Approval expires 7-31-88

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	b. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)		d. NO. OF ANALYSES	b. CONCENTRATION	b. MASS	b. LONG TERM AVERAGE VALUE		b. N. AN Y
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION — PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024-67-3)	X			<5	ND					1	ug/l	lbs			
18P. PCB-1242 (53469-21-9)	X			<100	ND					1	ug/l	lbs			
19P. PCB-1254 (11097-69-1)	X			<100	ND					1	ug/l	lbs			
20P. PCB-1221 (11104-28-2)	X			<100	ND					1	ug/l	lbs			
21P. PCB-1232 (11141-16-5)	X			<100	ND					1	ug/l	lbs			
22P. PCB-1248 (12672-29-6)	X			<100	ND					1	ug/l	lbs			
23P. PCB-1260 (11096-82-5)	X			<100	ND					1	ug/l	lbs			
24P. PCB-1016 (12674-11-2)	X			<100	ND					1	ug/l	lbs			
25P. Toxaphene (8001-35-2)	X			<100	ND					1	ug/l	lbs			

PAGE V-9

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)
NAME

Koppers Ind. Inc.

ADDRESS 7540 NW St. Helens Rd.

Portland, OR 97210

FACILITY NW Plant

LOCATION Multnomah Co.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

101003

PERMIT NUMBER

001

DISCHARGE NUMBER

3077-J

Form Approved.

OMB No. 2040-0004

Approval expires 10-31-94

47430

MONITORING PERIOD

FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	96	12	01		96	12	31
	(20-31)	(22-31)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) (46-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
FLOW	SAMPLE MEASUREMENT	44,516		GPD					N/A	18/31	EST.
	PERMIT REQUIREMENT										
TEMP	SAMPLE MEASUREMENT				45	48	50	F°	0	18/31	GRAB
	PERMIT REQUIREMENT										
pH	SAMPLE MEASUREMENT				6.9	7.0	7.1	SU	0	18/31	GRAB
	PERMIT REQUIREMENT										
OIL & GREASE	SAMPLE MEASUREMENT				N.D.	4.0	7.0	MG/L	0	18/31	GRAB
	PERMIT REQUIREMENT										
PHENOLS	SAMPLE MEASUREMENT				N.D.	.06	.13	Mg/L	0	18/31	GRAB
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)					TELEPHONE		DATE		
R.D. COLLINS, VP							503, 286-3681		97	01	02
TYPED OR PRINTED							AREA CODE NUMBER		YEAR	MO	DAY
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)											

FOURTH QUARTER PAH RESULTS ARE ATTACHED



Analytical Data

Koppers Industry

Job Number: 961203V

Page Number: 3 of 4

Lab Sample ID: 961203V-1

Field ID: Wastewater Tanks 1,3 & 5

Date/Time: 12/03/96 0800

Matrix: Waste Water

EPA Category: Extractable Organics

Analysis Performed: EPA 8310; Polynuclear Aromatic Hydrocarbons by HPLC.

Analysis Date: 12/23/96

Analyst: VB

Post-Fax Note		7671	
To: BILL SWERDINGEN	From: KITE Portland	Date: 1-2-97	# of pages: 2
Cell: ENV. 1800	Phone #		
Fax #	Fax #		

Parameter	Detection Limit	Laboratory Blank	Analytical Result
Acenaphthene	10.	ND	ND
Acenaphthylene	10.	ND	ND
Anthracene	1.	ND	ND
Benzo(a)anthracene	0.1	ND	4.0
Benzo(a)pyrene	0.4	ND	11.
Benzo(b)fluoranthene	0.1	ND	19.
Benzo(g,h,i)perylene	0.4	ND	6.4
Benzo(k)fluoranthene	0.1	ND	15.
Chrysene	1.	ND	7.
Dibenzo(a,h)anthracene	0.4	ND	1.7
Fluoranthene	1.	ND	13.
Fluorene	5.	ND	ND
Indeno(1,2,3-cd)pyrene	0.5	ND	7.3
Naphthalene	5.	ND	ND
Phenanthrene	1.	ND	ND
Pyrene	1.	ND	15.

Results expressed as mg/l unless otherwise noted.

ND means none detected at or above the detection limit listed.

RECEIVED

JAN - 2 1997

KOPPERS INDS., INC.
PORTLAND, OR

Coffey Laboratories, Inc.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003468

02/24/97

14:07

KOPPERS PORTLAND

001

file NPDES

KOPPERS INDUSTRIES

Amos S. Kameron
Plant Manager

Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Telephone: 503-286-3881
Fax: 503-285-2831

February 24, 1997

Mr. Neil J. Mullane, Manager
Water Quality Source Control
D.E.Q.
2020 SW Fourth Ave., Suite 400
Portland, Oregon 97201-4987


Reference: Facility No. 47430
WQ-NWR-97-002
Notice of Noncompliance

Dear Mr. Mullane,

This is to acknowledge your January 22, 1997 Notice of Noncompliance.

I simply wanted to confirm our inadvertent error and to assure you that we have taken measures to make sure that this does not happen again.

Sincerely



Amos S. Kameron

cc: Elliot Zais, DEQ
W. E. Swearingen, KII ✓

Koppers003469

*file NPDES***Oregon**

22 January 1997

AMOS S KAMERER
PLANT MANAGER
KOPPERS INDUSTRIES INC
7540 NW ST HELENS RD
PORTLAND OR 97210

RECEIVED

JAN 27 1997

KOPPERS INDS., INC.
PORTLAND, OR

DEPARTMENT OF
ENVIRONMENTAL
QUALITY

NORTHWEST REGION

Re: WQ-Multnomah County
Koppers Industries, Inc..
Facility No. 47430
WQ-NWR-97-002
NOTICE OF NONCOMPLIANCE

Dear Mr. Kamerer:

A review of your facility's discharge monitoring report for November 1996 shows that the following exceedences occurred at the above facility in November 1996:

Maximum phenol concentration in effluent 0.86 mg/L (allowable is 0.7 mg/L)

Average phenol concentration in effluent 0.52 mg/L (allowable is 0.5 mg/L)

The above exceedence is a Class II violation of your NPDES permit. Oregon Administrative Rule 340-12-041(2)(c) provides that a permittee shall not receive more than three NONs for Class II violations of the same permit within a thirty-six (36) month period without being issued a more formal enforcement action called a Notice of Permit Violation (NPV). The Department may, however, issue an NPV prior to the third NON. The Department requests your cooperation in ensuring that this violation does not recur.

If the Department can be of any help in preventing further violations, please call Elliot Zais at 229-5292.

Sincerely,

Nell J. Mullane

Nell J. Mullane, Manager
Water Quality Source Control

John A. Kitzhaber
Governor



EJZ

cc: WQ
Enforcement

Post-It™ brand fax transmittal memo 7871		# of pages	1
To	B. SWERINGEN	From	Amas
Ext.	K-1800	cc	Portland
Subject	COPIES OF "EXPLAIN"		
Date	1/21/97		

2020 SW Fourth Avenue
Suite 400
Portland, OR 97201-4987
(503) 229-5263 Voice
TTY (503) 229-5471
DRQ-1

Koppers003470

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)
NAME

ADDRESS

KOPPERS INDUSTRIES, INC.
7540 NW ST. HELENS RD.
PORTLAND, OR 97210

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

101003

PERMIT NUMBER

001

DISCHARGE NUMBER

3077-J

47430

Form Approved.

OMB No. 2040-0004

Approval expires 10-31-94

FACILITY NW PLANT

LOCATION MULTNOMAH CO.

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
98 11 01 98 11 30
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) (46-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	51,333		GPD					N/A	22/30	EST.
	PERMIT REQUIREMENT										
TEMP	SAMPLE MEASUREMENT				50	52	53	OF	0	22/30	GRAB
	PERMIT REQUIREMENT										
pH	SAMPLE MEASUREMENT				7.1	7.2	7.2	SU	0	22/30	GRAB
	PERMIT REQUIREMENT										
OIL & GREASE	SAMPLE MEASUREMENT				N.D.	2.0	4.0	mg/L	0	22/30	GRAB
	PERMIT REQUIREMENT										
PHENOLS	SAMPLE MEASUREMENT				.17	.52	.86	mg/L	0	22/30	GRAB
	PERMIT REQUIREMENT										
To: Bill SWEARINGEN	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
R.D. COLLINS, VP	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
TYPED OR PRINTED	OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)				Amos B. Kamerer, Plt. Mgr.		TELEPHONE		DATE	
						SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		503 286 3681		96 12 03	
								AREA CODE NUMBER		YEAR MO DAY	

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME KOPPERS INDUSTRIES, INC.
ADDRESS 7540 NW ST. HELENS RD.
PORTLAND, OR 97210

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(3-16) 101003 (17-19) 001
PERMIT NUMBER DISCHARGE NUMBER

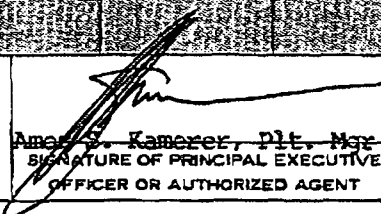
3077-J
47430

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

FACILITY NW PLANT
LOCATION MULTNOMAH CO.

MONITORING PERIOD
FROM YEAR MO DAY TO YEAR MO DAY
96 10 01 96 10 31
(30-21) (23-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)		
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS					
FLOW	SAMPLE MEASUREMENT	23,548		GPD					NA	14/31	Est.		
	PERMIT REQUIREMENT												
TEMP	SAMPLE MEASUREMENT				54	57	60		0	14/31	GRAB		
	PERMIT REQUIREMENT							OP					
pH	SAMPLE MEASUREMENT				6.5	7.0	7.4		0	14/31	GRAB		
	PERMIT REQUIREMENT							SU					
OIL & GREASE	SAMPLE MEASUREMENT				N.D.	1.0	3.0	mg/L	0	14/31	GRAB		
	PERMIT REQUIREMENT												
PHENOLS	SAMPLE MEASUREMENT				.05	.05	.06	mg/L	0	14/31	GRAB		
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)							TELEPHONE		DATE		
R.D. COLLINS, VP		 Signature of Principal Executive Officer or Authorized Agent							503 286-3681		96	11	04
TYPED OR PRINTED									AREA CODE		NUMBER		YEAR

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include

Facility Name/Location if different)

NAME Koppers Industries, Inc.

ADDRESS 7540 NW St. Helens Rd.

Portland, OR 97210

FACILITY NW Plant

LOCATION Multnomah

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

101003

PERMIT NUMBER

001

DISCHARGE NUMBER

3077-J

47430

Form Approved.

OMB No. 2040-0004

Approval expires 10-31-94

MONITORING PERIOD

FROM

YEAR MO DAY
96 09 01

TO

YEAR MO DAY
96 09 30

(20-21) (22-23) (24-25)

(26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	0									
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
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	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE		DATE				
R.D. Collins, VP		503 286-3681		96	10	02		
TYPED OR PRINTED		OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Nothing to Report

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME Koppers Industries, Inc.
ADDRESS 7540 NW St. Helens Rd.
Portland, OR 97210
FACILITY
LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16) (17-19)
101003 001
PERMIT NUMBER DISCHARGE NUMBER

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

MONITORING PERIOD
FROM YEAR MO DAY TO YEAR MO DAY
96 08 01 96 08 31
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

3077-J / 47430

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	0									
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
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	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE	DATE		
R.D. Collins, V. P.		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	503 286-3681	96	09
TYPED OR PRINTED		AREA CODE NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Nothing to Report

09/03/96

10:18

KOPPERS PORTLAND

001

Koppers003474

PERMITTEE NAME/ADDRESS (include Facility Name/Location if different)
NAME Koppers Industries Inc.
ADDRESS 7540 NW St. Helens Rd.
Portland, OR 97210
FACILITY Northwest Plant DEA #47430
LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)	(17-19)
101003	001
PERMIT NUMBER	DISCHARGE NUMBER

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
96	07	01	96	07	31
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

3077-J / 47430

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			(46-53) QUALITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS					
FLOW	SAMPLE MEASUREMENT	0											
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
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	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)											
R.D. Collins, V.P.													
TYPED OR PRINTED		TELEPHONE											
		DATE											
		503 286-3681 96 09 03											
		AREA CODE NUMBER YEAR MO DAY											

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Nothing to Report

09/03/96

10:20

KOPPERS PORTLAND

002

Koppers003475

PERMITTEE NAME/ADDRESS (include
Facility Name/Location if different)
NAME KOPPERS INDUSTRIES, INC.

ADDRESS 7540 NW ST. HELENS RD.
PORTLAND, OR 97210

FACILITY Northwest Plant DEA #47430

LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)
101003
PERMIT NUMBER

(17-19)
001
DISCHARGE NUMBER

3077-J

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	96	06	01		96	06	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

47430

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
FLOW	SAMPLE MEASUREMENT	0									
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
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	PERMIT REQUIREMENT										
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	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)					TELEPHONE		DATE		
R.D. Collins, V.P.											
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					503	286-3681	07	03	96
							AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Nothing to Report

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME **KOPPERS INDUSTRIES, INC.**

ADDRESS **17540 NW St. Helens Rd.**
Portland, OR 97210

FACILITY **Northwest Plant DEQ #47430**
LOCATION **Multnomah County**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

101003
PERMIT NUMBER

001
DISCHARGE NUMBER

3077-J

Form Approved.

OMB No. 2040-0004

Approval expires 10-31-94

47430

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
96 05 01 96 05 31
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE (54-55)	MAXIMUM (56-57)	UNITS (58-59)	MINIMUM (46-47)	AVERAGE (48-49)	MAXIMUM (50-51)				
FLOW	SAMPLE MEASUREMENT	27,097		GPD					N/A	17/31	Est.
	PERMIT REQUIREMENT										
Temp.	SAMPLE MEASUREMENT				58	62	64	°F	0	17/31	Grab
	PERMIT REQUIREMENT										
pH	SAMPLE MEASUREMENT				6.0	6.3	6.4	SU	0	17/31	Grab
	PERMIT REQUIREMENT										
Oil & Grease	SAMPLE MEASUREMENT				N.D.	N.D.	N.D.	Mg/L	0	17/31	Grab
	PERMIT REQUIREMENT										
Phenols	SAMPLE MEASUREMENT				.08	.11	.18	Mg/L	0	17/31	Grab
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include "fines" up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE	DATE			
R.D. Collins, V.P.		503 286-3681	96	06	04	
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

cc : J. Holtrop-City of Portland, W.E. Swearingen-KII

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)
NAME **KOPPERS INDUSTRIES**

ADDRESS **7540 NW ST. HELENS RD.**
PORTLAND, OR 97210

FACILITY **NORTHWEST PLANT DBQ #47430**

LOCATION **MULTNOMAH COUNTY**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

101003

PERMIT NUMBER

001

DISCHARGE NUMBER

Form Approved.

OMB No. 2040-0004

Approval expires 10-31-94

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
96 04 01 96 04 30
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

3077-J

47430

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	30.667		GPD					N/A	18/30	EST.
	PERMIT REQUIREMENT										
TEMPERATURE	SAMPLE MEASUREMENT				57	58	59	F	0	18/30	GRAB
	PERMIT REQUIREMENT										
PH	SAMPLE MEASUREMENT				6.2	6.5	6.8	SU	0	18/30	GRAB
	PERMIT REQUIREMENT										
OIL & GREASE	SAMPLE MEASUREMENT				N.D.	N.D.	N.D.	MG/L	0	18/30	GRAB
	PERMIT REQUIREMENT										
PHENOLS	SAMPLE MEASUREMENT				N.D.	.075	.17	MG/L	0	18/30	GRAB
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)					TELEPHONE		DATE		
R.D. COLLINS, V.P.							503 286-3681		96 05 06		
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					AREA CODE		NUMBER YEAR MO DAY		

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

The Second Quarter PAB results per attached.



Analytical Data

Koppers Industry

Job Number: 960425B

Page Number: 4 of 4

Lab Sample ID: 960425B-2

Field ID: WW 2,4,6

Date/Time: 04/25/96 0730

Matrix: Waste Water

EPA Category: Extractable Organics

Analysis Performed: EPA 8310; Polynuclear Aromatic Hydrocarbons by HPLC.

Analysis Date: 04/25/96

Analyst: DJM

Parameter	Detection Limit	Laboratory Blank	Analytical Result
Acenaphthene	25.	ND	ND
Acenaphthylene	25.	ND	ND
Anthracene	5.	ND	ND
Benzo(a)anthracene	0.5	ND	19.
Benzo(a)pyrene	1.	ND	21.
Benzo(b)fluoranthene	0.5	ND	23.
Benzo(g,h,i)perylene	1.	ND	16.
Benzo(k)fluoranthene	0.5	ND	17.
Chrysene	5.	ND	20.
Dibenzo(a,h)anthracene	2.5	ND	4.
Fluoranthene	5.	ND	18.
Fluorene	25.	ND	ND
Indeno(1,2,3-cd)pyrene	2.5	ND	13.
Naphthalene	25.	ND	ND
Phenanthrene	5.	ND	7.
Pyrene	5.	ND	29.

Results expressed as $\mu\text{g/l}$ unless otherwise noted.

ND means none detected at or above the detection limit listed.

187

RECEIVED

MAY 11 1996

KOPPERS INDUS., INC.
PORTLAND, OR

Coffey Laboratories, Inc.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)
NAME **KOPPERS INDUSTRIES**

ADDRESS **7540 NW ST. HELENS RD.
PORTLAND, OR 97210**

FACILITY **NORTHWEST PLANT DEQ #47430**
LOCATION **MULTNOMAH COUNTY**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16)

101003

PERMIT NUMBER

(17-19)
03

DISCHARGE NUMBER

Form Approved.

OMB No. 2040-0004

Approval expires 10-31-94

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
96 03 01 96 03 31
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

3077-J
47430

NOTE: Read Instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE (54-55)	MAXIMUM (56-57)	UNITS (58-59)	MINIMUM (38-40)	AVERAGE (41-43)	MAXIMUM (44-46)	UNITS (47-49)			
FLOW	SAMPLE MEASUREMENT	14,194		GPD					N/A	12/31	EST.
	PERMIT REQUIREMENT										
TEMPERATURE	SAMPLE MEASUREMENT				51	53	54	°F	0	12/31	GRAB
	PERMIT REQUIREMENT										
PH	SAMPLE MEASUREMENT				6.5	6.5	6.6	SU	0	12/31	GRAB
	PERMIT REQUIREMENT										
OIL & GREASE	SAMPLE MEASUREMENT				ND	2.0	5.0	MG/L	0	12/31	GRAB
	PERMIT REQUIREMENT										
PHENOLS	SAMPLE MEASUREMENT				ND	.09	.13	MG/L	0	12/31	GRAB
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 3 years.)	TELEPHONE		DATE		
R.D. COLLINS, V.P.		286-3681		96	04	01
TYPED OR PRINTED		503 AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	503 AREA CODE	286-3681 NUMBER	96 YEAR	04 MO	01 DAY
--	--	------------------	--------------------	------------	----------	-----------

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)
NAME **Koppers Industries**

ADDRESS **7540 NW St. Helens Rd.**
Portland, Or 97210

FACILITY **Northwest Plant DBQ #47430**

LOCATION **Multnomah County**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16) (17-19)

101003

PERMIT NUMBER

2

DISCHARGE NUMBER

Form Approved.

OMB No. 2040-0004

Approval expires 10-31-94

3077-J

47430

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	96	02	01		96	02	29
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	<div></div>	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE (54-55)	MAXIMUM (56-57)	UNITS (58-59)	MINIMUM (46-47)	AVERAGE (48-49)	MAXIMUM (50-51)	UNITS (52-53)			
Flow	SAMPLE MEASUREMENT	7,586		GPD					N/A	6/29	Est.
	PERMIT REQUIREMENT										
Temperature	SAMPLE MEASUREMENT				58	58	58	°F	0	6/29	Grab
	PERMIT REQUIREMENT										
pH	SAMPLE MEASUREMENT				6.5	6.6	6.7	SU	0	6/29	Grab
	PERMIT REQUIREMENT										
Oil & Grease	SAMPLE MEASUREMENT				4.0	4.5	5.0	MG/L	0	6/29	Grab
	PERMIT REQUIREMENT										
Phenols	SAMPLE MEASUREMENT				.22	.24	.26	MG/L	0	6/29	Grab
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R.D. Collins, V.P.

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED
AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED
ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR
OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS
TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE
SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING
THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND
23 U.S.C. § 1319. (Penalties under these statutes may include fines up
to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

KAMELER
James S. Kameker, Plant Mgr.
SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503
AREA
CODE

286-3681
NUMBER

96 02 04
YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME Koppers Industries, Inc.
ADDRESS 7540 NW St. Helens Rd.
Portland, Or 97210

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16) 101003 (17-19) 1
PERMIT NUMBER DISCHARGE NUMBER

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

FACILITY Northwest Plant DEO #47430
LOCATION Multnomah County

MONITORING PERIOD
FROM YEAR MO DAY TO YEAR MO DAY
96 01 01 96 01 31
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

3077-J
47430

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) (46-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-69)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Flow	SAMPLE MEASUREMENT	14,194		GPD					N/A	12/31	Est.
	PERMIT REQUIREMENT										
Temperature	SAMPLE MEASUREMENT				50	58	64	°F	0	12/31	Grab
	PERMIT REQUIREMENT										
pH	SAMPLE MEASUREMENT				6.3	6.4	6.5	SU	0	12/31	Grab
	PERMIT REQUIREMENT										
Oil & Grease	SAMPLE MEASUREMENT				N.D.	1.5	6.0	MG/L	0	12/31	Grab
	PERMIT REQUIREMENT										
Phenols	SAMPLE MEASUREMENT				N.D.	.05	.10	MG/L	0	12/31	Grab
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$111,800 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE	DATE			
R.D. Collins, V.P.			503 286-3681	96	02	01
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

1st Quarter PAH test results are attached.

**Analytical Data**

Koppers Industry

Job Number: 960115C

Page Number: 3 of 3

Lab Sample ID: 960115C-1

Field ID: WW 1,3,5

Date/Time: 01/15/96 0800

Matrix: Waste Water

EPA Category: Extractable Organics

Analysis Performed: EPA 8310; Polynuclear Aromatic Hydrocarbons by HPLC.

Analysis Date: 01/15/96

Analyst: DJM

Parameter	Detection Limit	Laboratory Blank	Analytical Result
Acenaphthene	6.	ND	21.
Acenaphthylene	6.	ND	ND
Anthracene	6.	ND	ND
Benzo(a)anthracene	0.12	ND	5.4
Benzo(b)fluoranthene	0.12	ND	8.0
Benzo(k)fluoranthene	0.06	ND	2.9
Benzo(g,h,i)perylene	0.36	ND	3.3
Benzo(a)pyrene	0.12	ND	4.1
Chrysene	0.6	ND	2.9
Dibenzo(a,h)anthracene	0.36	ND	3.5
Fluoranthene	0.6	ND	5.2
Fluorene	45.	ND	ND
Indeno(1,2,3-cd)pyrene	0.6	ND	3.2
Naphthalene	6.	ND	ND
Phenanthrene	6.	ND	ND
Pyrene	2.4	ND	ND

Results expressed as $\mu\text{g/l}$ unless otherwise noted.

ND means none detected at or above the detection limit listed.

RECEIVED

JAN 22 1996

KOPPERS INDS., INC.
PORTLAND, OR**Coffey Laboratories, Inc.**

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003483

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME Koppers Industries, Inc.

ADDRESS 7540 NW St Helens Road

Portland, OR 97210

FACILITY Northwest Plant DEQ #47430

LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

101003

12

PERMIT NUMBER

DISCHARGE NUMBER

3077-J

47430

Form Approved.

OMB No. 2040-0004

Approval expires 10-31-94

MONITORING PERIOD

FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	95	12	01		95	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) (46-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Flow	SAMPLE MEASUREMENT	14,194		GPD					n/a	12/31	Est.
	PERMIT REQUIREMENT										
Temperature	SAMPLE MEASUREMENT				42	49	54	F	0	12/31	Grab
	PERMIT REQUIREMENT						110				
pH	SAMPLE MEASUREMENT				6.3	6.4	6.4	SU	0	12/31	Grab
	PERMIT REQUIREMENT				6.0		9.0				
Oil & Grease	SAMPLE MEASUREMENT				n.d.	n.d.	n.d.	mg/L	0	12/31	Grab
	PERMIT REQUIREMENT				n/a	10	15				
Phenols	SAMPLE MEASUREMENT				n.d.	.11	.10	mg/L	0	12/31	Grab
	PERMIT REQUIREMENT				n/a	0.5	0.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE		DATE		
R. D. Collins, V.P. TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	503 AREA CODE	286-3681 NUMBER	96 YEAR	01 MO

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

4th Quarter PAH test results are attached.

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)
NAME Koppers Industries, Inc.
ADDRESS 7540 NW St Helens Road
Portland, OR 97210

FACILITY Northwest Plant DEO #47430
LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER 101003
DISCHARGE NUMBER 11

3077-j
47430

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

MONITORING PERIOD
FROM YEAR 95 MO 11 DAY 01 TO YEAR 95 MO 11 DAY 30
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT (38-43)	QUANTITY OR LOADING (46-53)			QUALITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-65)	SAMPLE TYPE (69-70)	
		AVERAGE (46-53)	MAXIMUM (54-55)	UNITS (56-57)	MINIMUM (58-59)	AVERAGE (60-61)	MAXIMUM (62-63)				UNITS (64-65)
Flow	SAMPLE MEASUREMENT (38-43)	8,000		GPD					n/a	9/30	est.
Temperature	SAMPLE MEASUREMENT (38-43)				53	55	58		0	9/30	grab
pH	SAMPLE MEASUREMENT (38-43)				6.2	6.3	6.4		0	9/30	grab
Oil & Grease	SAMPLE MEASUREMENT (38-43)				n.d.	2.3	4.0		0	9/30	grab
Phenols	SAMPLE MEASUREMENT (38-43)				n.d.	n.d.	n.d.		0	9/30	grab
	SAMPLE MEASUREMENT (38-43)										
	SAMPLE MEASUREMENT (38-43)										
	SAMPLE MEASUREMENT (38-43)										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER R. D. Collins, V.P. TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may actually reach up to \$10,000 and/or maximum imprisonment of between 5 months and 5 years.)	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT Arnos S. Kameron, Plant Mgr	TELEPHONE 503 286-3681	DATE 95 12 05
---	---	---	---------------------------	------------------

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Facility Name/Location (if different)
NAME Koppers Industries, Inc.
ADDRESS 7540 NW St Belens Road
Portland, OR 97210
FACILITY Northwest Plant DEQ #47430
LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

101003

PERMIT NUMBER

10

DISCHARGE NUMBER

3077-J
47430

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
95	10	01	95	10	31
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

FROM

TO

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
Flow	SAMPLE MEASUREMENT	14,194		GPD				n/a	10/31	Est.	
	PERMIT REQUIREMENT										
Temperature	SAMPLE MEASUREMENT				58	61	64	0	10/31	Grab	
	PERMIT REQUIREMENT										
pH	SAMPLE MEASUREMENT				6.1	6.2	6.4	0	10/31	grab	
	PERMIT REQUIREMENT										
Oil & Grease	SAMPLE MEASUREMENT				n.d.	n.d.	n.d.	0	10/31	Grab	
	PERMIT REQUIREMENT							mg/L			
Phenols	SAMPLE MEASUREMENT				n.d.	n.d.	n.d.	0	10/31	Grab	
	PERMIT REQUIREMENT							mg/L			
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY KNOWLEDGE OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)					TELEPHONE		DATE		
R. D. Collins, V.P.							503	286-3681	95	11	02
TYPED OR PRINTED							AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

11/03/95

09:22

KOPPERS PORTLAND

001

Koppers003486

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location (if different))

NAME Koppers Industries, Inc.

ADDRESS 7540 NW St. Helens Road
Portland, OR 97210

FACILITY Northwest Plant DBQ #47430

LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

101003

PERMIT NUMBER

09

DISCHARGE NUMBER

3077-J

47430

Form Approved.

OMB No. 2040-0004

Approval expires 10-31-94

MONITORING PERIOD

FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	95	09	01		95	09	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-65)	SAMPLE TYPE (69-70)	
		AVERAGE (46-53)	MAXIMUM (54-55)	UNITS (56-57)	MINIMUM (38-43)	AVERAGE (46-53)	MAXIMUM (54-55)				UNITS (56-57)
Flow	SAMPLE MEASUREMENT	3667		GPD					n/a	1/30	Est
Temperature	SAMPLE MEASUREMENT				68	68	68		0	1/30	Grab
PH	SAMPLE MEASUREMENT				6.3	6.3	6.3		0	1/30	Grab
Oil & Grease	SAMPLE MEASUREMENT				1.4	1.4	1.4		0	1/30	Grab
Phenols	SAMPLE MEASUREMENT				N.D.	N.D.	N.D.		0	1/30	Grab
	SAMPLE MEASUREMENT										
	SAMPLE MEASUREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY KNOWLEDGE OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE	DATE			
R. D. Collins, V.P. TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	503 AREA CODE	286-3681 NUMBER	95 YEAR	10 MO

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)

NAME Koppers Industries, Inc.

ADDRESS 7540 NW St. Helens Road

Portland, OR 97210

FACILITY Northwest Plant DRQ #47430

LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

101003

08

PERMIT NUMBER

DISCHARGE NUMBER

3077-J

47430

Form Approved.

OMB No. 2040-0004

Approval expires 10-31-94

MONITORING PERIOD

FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	95	08	01		95	08	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(1 Card Only) QUALITY OR CONCENTRATION (38-43)				NO. EX (52-53)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Flow	SAMPLE MEASUREMENT	3548		GPD					N/A	1/31	Est.
Temperature	SAMPLE MEASUREMENT				80	80	80	F	0	1/31	Grab
pH	SAMPLE MEASUREMENT				6.7	6.7	6.7	SD	0	1/31	Grab
OIL & Grease	SAMPLE MEASUREMENT				N.D.	N.D.	N.D.	mg/L	0	1/31	Grab
Phenols	SAMPLE MEASUREMENT				N.D.	N.D.	N.D.	mg/L	0	1/31	Grab
	SAMPLE MEASUREMENT										
	SAMPLE MEASUREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREON, AND BASED ON MY KNOWLEDGE OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC 1001 AND 33 USC 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE		DATE		
R. D. Collins, V.P. TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	503 AREA CODE	286-3681 NUMBER	95 YEAR	09 MO

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Third quarter PAB test results are attached.



Analytical Data

Koppers Industry

Job Number: 950804BK

Page Number: 2 of 2

Lab Sample ID: 950804BK-1

Field ID: WWT 1-3-5

Date/Time: 08/04/95 1400

Matrix: Waste Water

EPA Category: Conventional Parameters

Parameter	Method	Detection Limit	Analytical Result	Units	Analysis Date	Analyst
Oil & Grease	EPA 413.1	3.	ND	mg/L	08/11/95	SSS
Total Phenols	EPA 420.1	0.05	ND	mg/L	08/09/95	PDB

EPA Category: Extractable Organics

Parameter	Method	Detection Limit	Analytical Result	Units	Analysis Date	Analyst
Acenaphthene	EPA 8310	25.	ND	µg/L	08/09/95	DJM
Acenaphthylene	EPA 8310	25.	ND	µg/L	08/09/95	DJM
Anthracene	EPA 8310	5.	ND	µg/L	08/09/95	DJM
Benzo(a)anthracene	EPA 8310	0.25	ND	µg/L	08/09/95	DJM
Benzo(b)fluoranthene	EPA 8310	0.5	ND	µg/L	08/09/95	DJM
Benzo(k)fluoranthene	EPA 8310	0.25	ND	µg/L	08/09/95	DJM
Benzo(g,h,i)perylene	EPA 8310	0.5	ND	µg/L	08/09/95	DJM
Benzo(a)pyrene	EPA 8310	0.25	ND	µg/L	08/09/95	DJM
Chrysene	EPA 8310	2.5	ND	µg/L	08/09/95	DJM
Dibenzo(a,h)anthracene	EPA 8310	0.5	ND	µg/L	08/09/95	DJM
Fluoranthene	EPA 8310	2.5	ND	µg/L	08/09/95	DJM
Fluorene	EPA 8310	2.5	ND	µg/L	08/09/95	DJM
Indeno(1,2,3-cd)pyrene	EPA 8310	1.25	ND	µg/L	08/09/95	DJM
Naphthalene	EPA 8310	25.	ND	µg/L	08/09/95	DJM
Phenanthrene	EPA 8310	5.	ND	µg/L	08/09/95	DJM
Pyrene	EPA 8310	2.5	ND	µg/L	08/09/95	DJM

ND means none detected at or above the detection limit listed.

COFFEY LABORATORIES, INC.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003489

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)
NAME KOPPERS INDUSTRIES, INC.
ADDRESS 7540 NW ST HELENS ROAD
PORTLAND, OR 97210

FACILITY NORTHWEST PLANT DEQ #47430
LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(12-16) (17-19)

101003

PERMIT NUMBER

07

DISCHARGE NUMBER

3077-J
47430

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-94

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
95 07 01 95 07 31
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) (45-53) QUANTITY OR LOADING (34-61)			(4 Card Only) (38-43) QUALITY OR CONCENTRATION (46-53) (34-61)				NO. EX (52-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	0									
	SAMPLE MEASUREMENT										
	SAMPLE MEASUREMENT										
	SAMPLE MEASUREMENT										
	SAMPLE MEASUREMENT										
	SAMPLE MEASUREMENT										
	SAMPLE MEASUREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC 1001 AND 33 USC 1318. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE	DATE		
R. D. COLLINS, V. P. TYPED OR PRINTED		503 AREA CODE	286-3681 NUMBER	95 YEAR	07 MO

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NO DISCHARGE DURING THE MONTH.

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)
NAME **KOPPERS INDUSTRIES, INC.**
ADDRESS **7540 NW ST. HELENS ROAD**
PORTLAND, OR 97210

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) (17-19)
101003 06
PERMIT NUMBER DISCHARGE NUMBER

3077-J
47430

Form Approved.
OMB No. 2040-0004
Approval expires 10-31-84

FACILITY **NORTHWEST PLANT DEQ #47430**
LOCATION **MULTNOMAH COUNTY**

MONITORING PERIOD
FROM YEAR MO DAY TO YEAR MO DAY
95 06 01 95 06 30
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) (46-53) QUANTITY OR LOADING (34-41)			(4 Card Only) (34-43) QUALITY OR CONCENTRATION (46-53) (34-61)				NO. EX (52-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)		
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS					
FLOW	SAMPLE MEASUREMENT	7,333		GPD					N/A	2/30	EST.		
TEMPERATURE	SAMPLE MEASUREMENT				61	64	66	°F	0	2/30	GRAB		
pH	SAMPLE MEASUREMENT				6.5	6.5	6.5	SU	0	2/30	GRAB		
OIL & GREASE	SAMPLE MEASUREMENT				6.0	8.0	9.0	mg/L	0	2/30	GRAB		
PHENOLS	SAMPLE MEASUREMENT				N.D.	.06	.12	Mg/L	0	2/30	GRAB		
	SAMPLE MEASUREMENT												
	SAMPLE MEASUREMENT												
	SAMPLE MEASUREMENT												
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 4 years.)							TELEPHONE		DATE		
R.D. COLLINS, V.P.		A.S. JOHNSON, PLANT MGR. SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT							503	286-3681	95	07	18
TYPED OR PRINTED									AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

XXXXX SPONSOR'S QUALITY CONTROL RESULTS ARE ATTACHED XXXXX

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)
NAME KOPPERS INDUSTRIES, INC.
ADDRESS 7540 NW ST HELENS ROAD
PORTLAND, OR 97210

FACILITY NORTHWEST PLANT DEO #47430
LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) 101003 (17-19) 05
PERMIT NUMBER DISCHARGE NUMBER

3077-J
47430

Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
95	05	01		95	05	31
(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (46-53)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	7,097							N/A	2/31	EST.
	PERMIT REQUIREMENT	N/A	N/A								
TEMPERATURE	SAMPLE MEASUREMENT				60	61	62	F	0	2/31	GRAB
	PERMIT REQUIREMENT						110				
pH	SAMPLE MEASUREMENT				6.4	6.5	6.6	SU	0	2/31	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASE	SAMPLE MEASUREMENT				N.D.	2.5	5.0	mg/L	0	2/31	GRAB
	PERMIT REQUIREMENT				N/A	10	15				
PHENOLS	SAMPLE MEASUREMENT				N.D.	.03	.05	mg/L	0	2/31	GRAB
	PERMIT REQUIREMENT				N/A	.5	.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R. D. COLLINS, V. P.

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

A. S. Kamerer / KM
A. S. KAMERER, PLANT MGR.
SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503
AREA
CODE

286-3681
NUMBER

95 06 09
YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

THE SECOND QUARTER PAH RESULTS ARE ATTACHED.

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)
NAME **KOPPERS INDUSTRIES, INC.**

ADDRESS **7540 NW ST HELENS ROAD**
PORTLAND, OR 97210

FACILITY **NORTHWEST PLANT DEQ #47430**

LOCATION **MULTNOMAH COUNTY**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) **101003** (17-19) **04**
PERMIT NUMBER DISCHARGE NUMBER

3077-J
47430

Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

MONITORING PERIOD
FROM YEAR MO DAY TO YEAR MO DAY
95 04 01 95 04 30
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (34-41)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	4,500							N/A	1/30	EST.
	PERMIT REQUIREMENT	N/A	N/A								
TEMPERATURE	SAMPLE MEASUREMENT				55	55	55	°F	0	1/30	GRAB
	PERMIT REQUIREMENT										
pH	SAMPLE MEASUREMENT				6.7	6.7	6.7		0	1/30	GRAB
	PERMIT REQUIREMENT				5.0			SU			
OIL & GREASE	SAMPLE MEASUREMENT				N.D.	N.D.	N.D.		0	1/30	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A	mg/L			
PHENOLS	SAMPLE MEASUREMENT				.10	.10	.10		0	1/30	GRAB
	PERMIT REQUIREMENT				N/A			mg/L			
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Provision under these statutes may include fines up to \$110,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE		DATE		
R. D. COLLINS, V.P. TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT A. S. KAMMERER, PLANT MGR.	503 AREA CODE	286-3681 NUMBER	95 YEAR	05 MO

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include
Facility Name, Location, and City)
NAME **KOPPERS INDUSTRIES, INC.**
ADDRESS **7540 NW ST HELENS ROAD**
PORTLAND, OR 97210

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(12-16) (17-19)

101003

PERMIT NUMBER

03

DISCHARGE NUMBER

3077-J
47430

Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

FACILITY **NORTHWEST PLANT DEQ #47430**
LOCATION **MULTNOMAH COUNTY**

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
95	03	01		95	03	31
(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	14,194							N/A	12/31	EST.
	FORM MEASUREMENT	N/A	N/A								
TEMPERATURE	SAMPLE MEASUREMENT				51	53	55	°F	0	12/31	GRAB
	FORM MEASUREMENT						110				
pH	SAMPLE MEASUREMENT				6.5	6.7	6.7	SU	0	12/31	GRAB
	FORM MEASUREMENT				6.0		9.0				
OIL & GREASES	SAMPLE MEASUREMENT				N.D.	3.3	6.0	mg/L	0	12/31	GRAB
	FORM MEASUREMENT				N/A	10	15				
PHENOLS	SAMPLE MEASUREMENT				N.D.	.06	.16	mg/L	0	12/31	GRAB
	FORM MEASUREMENT				N/A						
	SAMPLE MEASUREMENT										
	FORM MEASUREMENT										
	SAMPLE MEASUREMENT										
	FORM MEASUREMENT										
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001, AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 3 years.)				TELEPHONE		DATE			
R. D. COLLINS, V.P.						503 286-3681		95	04	03	
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				AREA CODE	NUMBER	YEAR	MO	DAY	
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)											

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

HAMS KOPPERS INDUSTRIES, INC.

**ADDRESS 7540 NW ST HELENS ROAD
PORTLAND, OR 97210**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) 101003	(17-19) 02
PERMIT NUMBER	DISCHARGE NUMBER

3077-J
47430

Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

FACILITY NORTHWEST PLANT DEQ #47430
LOCATION MULTNOMAH COUNTY

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	95	02	01		95	02	28
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	<div></div>	(3 Card Only) QUANTITY OR LOADING (48-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	14,286							N/A	10/28	EST.
	PERMIT REQUIREMENT	N/A	N/A								
TEMPERATURE	SAMPLE MEASUREMENT				43	46	50	°F	0	10/28	GRAB
	PERMIT REQUIREMENT						110				
pH	SAMPLE MEASUREMENT				6.5	6.5	6.6	SU	0	10/28	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASES	SAMPLE MEASUREMENT				N.D.	4.4	7	mg/L	0	10/28	GRAB
	PERMIT REQUIREMENT				N/A	10	15				
PHENOLS	SAMPLE MEASUREMENT				.07	.11	.18	mg/L	0	10/28	GRAB
	PERMIT REQUIREMENT				N/A	5	7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R. D. COLLINS, V.P.

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY KNOWLEDGE OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1318. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

[Signature]
A. S. KAMERER, PLANT MGR
SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503
AREA CODE

286-3681
NUMBER

95 03 01
YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

QUARTERLY PAH TEST RESULTS ARE ATTACHED.

**Analytical Data****Koppers Industry****Job Number: 950202U****Page Number: 3 of 3****Lab Sample ID: 950202U-2****Field ID: WWT 2/4 Composite****Date/Time: 02/02/95 1200****Matrix: Waste Water****Analysis Performed: Polynuclear Aromatic Hydrocarbons in waste water by EPA Method 8310, HPLC.**

<u>Compound</u>	<u>Detection Limit</u>	<u>Analytical Results</u>
Acenaphthene	500	ND
Acenaphthylene	500	ND
Anthracene	100	ND
Benzo(a)anthracene	15	45
Benzo(b)fluoranthene	20	58
Benzo(k)fluoranthene	15	38
Benzo(g,h,i)perylene	15	38
Benzo(a)pyrene	15	43
Chrysene	20	22
Dibenzo(a,h)anthracene	15	ND
Fluoranthene	100	ND
Fluorene	200	ND
Indeno(1,2,3-c,d)pyrene	20	25
Naphthalene	500	ND
Phenanthrene	200	ND
Pyrene	200	ND

269

Results expressed as $\mu\text{g/L}$ unless otherwise noted.

ND means none detected at or above the detection limit listed.

COFFEY LABORATORIES, INC.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003496

**KOPPERS
INDUSTRIES**

Amos S. Kameron
Plant Manager

Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Telephone: 503-285-3881
Fax: 503-285-2831

February 9, 1995

Mr. Elliot Zais
Oregon Department of Environmental Quality
2020 SW Fourth Ave. #400
Portland, OR 97201

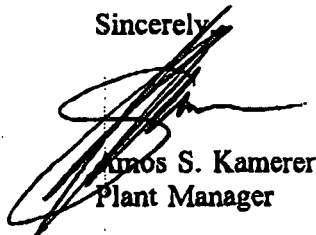
Reference: NPDES-DMR January 1995

Dear Mr. Zais:

Enclosed please find an amended DMR for January. One discharge and the related analysis information was accidentally omitted in the original report that was dated 2/2/95. Only the flow and oil and grease information was affected by this omission and no violation resulted.

Please accept my apology for this error.

Sincerely,



Amos S. Kameron
Plant Manager

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME KOPPERS INDUSTRIES, INC.
ADDRESS 7540 NW ST HELENS ROAD
PORTLAND, OR 97210

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

101003
PERMIT NUMBER

01
DISCHARGE NUMBER

AMENDED

3077-J
47430

Form Appr
OMB No. 7
Approval

WE
Swearingen
K-1800

FACILITY NORTHWEST PLANT DEQ #47430
LOCATION MULTNOMAH COUNTY

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	95	01	01		95	01	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read Instructions

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)							
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM										
FLOW	SAMPLE MEASUREMENT	15,161		GPD					N/A	10/31	EST.						
	PERMIT REQUIREMENT	NA	N/A														
TEMPERATURE	SAMPLE MEASUREMENT				46	49	53		0	10/31	GRAB						
	PERMIT REQUIREMENT																
pH	SAMPLE MEASUREMENT				6.4	6.5	6.7		0	10/31	GRAB						
	PERMIT REQUIREMENT																
OIL & GREASE	SAMPLE MEASUREMENT				N.D.	1.9	5.0		0	10/31	GRAB						
	PERMIT REQUIREMENT																
PHENOLS	SAMPLE MEASUREMENT				N.D.	.11	.25		0	10/31	GRAB						
	PERMIT REQUIREMENT																
	SAMPLE MEASUREMENT																
	PERMIT REQUIREMENT																
	SAMPLE MEASUREMENT																
	PERMIT REQUIREMENT																
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.					TELEPHONE		DATE								
R. D. COLLINS, V.P.							503 286-3681		95	02	09						
TYPED OR PRINTED							AREA CODE	NUMBER	YEAR	MO	DAY						

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Facility Name/Address (Include Facility Name/Location if different)

NAME KOPPERS INDUSTRIES, INC.

ADDRESS 7540 NW ST HELENS ROAD
PORTLAND, OR 97210

FACILITY NORTHWEST PLANT DEQ #47430

LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(12-16)

(17-19)

101003

12

PERMIT NUMBER

DISCHARGE NUMBER

3077-J

47430

Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

MONITORING PERIOD

FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	94	12	01		94	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-65)	SAMPLE TYPE (66-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	16,452		GPD					N/A	13/31	EST.
	PERMIT REQUIREMENT										
TEMPERATURE	SAMPLE MEASUREMENT				46	48	52	°F	0	13/31	GRAB
	PERMIT REQUIREMENT										
pH	SAMPLE MEASUREMENT				6.4	6.6	6.7		0	13/31	GRAB
	PERMIT REQUIREMENT							SU			
OIL & GREASE	SAMPLE MEASUREMENT				N.D.	3.0	6.0	mg/L	0	13/31	GRAB
	PERMIT REQUIREMENT										
PHENOLS	SAMPLE MEASUREMENT				.07	.10	.19	mg/L	0	13/31	GRAB
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R. D. COLLINS, V.P.

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY KNOWLEDGE OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 18 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

A. J. KAMERER, PLANT MGR
SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503
AREA CODE

286-3681
NUMBER

95
YEAR

01
MO

04
DAY

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)

NAME KOPPERS INDUSTRIES, INC.

ADDRESS 7540 NW ST HELENS ROAD

PORTLAND, OR 97210

FACILITY NORTHWEST PLANT DEQ #47430

LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

101003

0011

PERMIT NUMBER

DISCHARGE NUMBER

3077-J

47430

Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

MONITORING PERIOD

FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	94	11	01		94	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(J Card Only) QUANTITY OR LOADING (46-53)			(I Card Only) QUALITY OR CONCENTRATION (46-53)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-65)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	16,333		GPD					N/A	12/30	EST.
TEMPERATURE	SAMPLE MEASUREMENT				43	48	50	° F	0	12/30	GRAB EST.
PH	SAMPLE MEASUREMENT				6.4	6.6	6.7	SU	0	12/30	GRAB
OIL & GREASE	SAMPLE MEASUREMENT				N.D.	.67	4.0	mg/L	0	12/30	GRAB
PHENOLS	SAMPLE MEASUREMENT				N.D.	.10	.17	mg/L	0	12/30	GRAB
	SAMPLE MEASUREMENT										
	SAMPLE MEASUREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

B. D. COLLINS, V.P.

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1919. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

A. S. KAMERER, PLANT MGR

SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE

503
AREA
CODE

286-3681
NUMBER

DATE

94 12 02
YEAR NO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PAH TEST RESULTS TAKEN THIS MONTH ARE ATTACHED.

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)
NAME **KOPPERS INDUSTRIES, INC.**
ADDRESS **7540 NW ST HELENS ROAD**
PORTLAND, OR 97210

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16) (17-19)

101003

PERMIT NUMBER

0010

DISCHARGE NUMBER

3077-J
47430

Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

FACILITY **NORTHWEST PLANT DEQ #47430**
LOCATION **MULTNOMAH COUNTY**

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
94 10 01 94 10 31
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (48-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW	SAMPLE MEASUREMENT	8710								
	PERMIT REQUIREMENT			CPD					N/A	EST.
TEMPERATURE	SAMPLE MEASUREMENT				52	55	58		0	6/31
	PERMIT REQUIREMENT									GRAB
pH	SAMPLE MEASUREMENT				6.5	6.7	6.8		0	6/31
	PERMIT REQUIREMENT									GRAB
OIL & GREASES	SAMPLE MEASUREMENT				N.D.	N.D.	N.D.		0	6/31
	PERMIT REQUIREMENT									GRAB
PHENOLS	SAMPLE MEASUREMENT				N.D.	N.D.	N.D.		0	6/31
	PERMIT REQUIREMENT									GRAB
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

J. R. BATCHELDER, VP.

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 18 USC § 1339. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 3 years.)

A. S. KAMERER, PLANT MGR

SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503
AREA
CODE

286-3681
NUMBER

94
YEAR

11
MO

02
DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

OUR 4TH QUARTER PAH TEST RESULTS ARE ATTACHED.

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)
KOPPERS INDUSTRIES, INC.
ADDRESS **7540 NW ST HELENS ROAD**
PORTLAND, OR 97210

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

101003

0009

PERMIT NUMBER

DISCHARGE NUMBER

3077-J
47430

Form Approved
OMB No. 2040-0004.
Approval expires 6-30-91.

FACILITY **NORTHWEST PLANT DEO 147430**
LOCATION **MULTNOMAH COUNTY**

MONITORING PERIOD

FROM YEAR 94 MO 09 DAY 01 TO YEAR 94 MO 09 DAY 30
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT	(3 Card Only) QUANTITY OR LOADING (45-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-63)				NO. EX (63-67)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW		3000		GPD					N/A	1/30	EST.
TEMPERATURE					72	73.5	75	F	0	1/30	GRAB
pH					6.8	6.85 6.84	6.9	SU	0	1/30	GRAB
OIL & GREASES					N.D.	3	6	mg/L	0	1/30	GRAB
PHENOLS					N.D.	.025	.05	mg/L	0	1/30	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 3 years.)	TELEPHONE	DATE		
J. R. BATCHELDER, V.P. TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>[Signature]</i> A. S. KAMERER, PLANT MGR	503 286-3681 AREA CODE NUMBER	94 YEAR	10 MO

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)
NAME KOPPERS INDUSTRIES, INC.

ADDRESS 7540 NW ST HELENS ROAD
PORTLAND, OR 97210

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

101003

0008

PERMIT NUMBER

DISCHARGE NUMBER

Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

3077-J
47430

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
94 08 01 94 08 31
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and a maximum imprisonment of between 6 months and 5 years.)	TELEPHONE	DATE		
J. R. BATCHELDER, V.P. TYPED OR PRINTED		A. J. KAMRER, PLANT MGR SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	503 286-3681 AREA CODE NUMBER	94 09 15 YEAR MO DAY	

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NOTHING TO REPORT—NO FLOW FOR THE MONTH.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME **KOPPERS INDUSTRIES, INC.**

ADDRESS **7540 NW ST HELENS ROAD**

PORTLAND, OR 97210

FACILITY **NORTHWEST PLANT DEQ #47430**

LOCATION **MULTNOMAH COUNTY**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

101003

PERMIT NUMBER

0007

DISCHARGE NUMBER

3077-J

47430

MONITORING PERIOD

FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	94	07	01		94	07	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Res

Post-It™ brand fax transmittal me

To **Bill Swearingen**

Co. **R-1800**

Dept.

Fax #

DMR

PARAMETER (12-17)		(1 Card Only) QUANTITY OR LOADING (45-53)			(1 Card Only) QUALITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW	SAMPLE MEASUREMENT	1452		GPD				N/A	1/31	EST.
	PERM. REQUIREMENT									
TEMPERATURE	SAMPLE MEASUREMENT				70	70	71	°F	1/31	GRAB
	PERM. REQUIREMENT									
pH	SAMPLE MEASUREMENT				6.9	7.0	7.1	SU	1/31	GRAB
	PERM. REQUIREMENT									
OIL & GREASES	SAMPLE MEASUREMENT				N.D.	N.D.	N.D.	mg/L	1/31	GRAB
	PERM. REQUIREMENT									
PHENOLS	SAMPLE MEASUREMENT				.08	.12	.15	mg/L	1/31	GRAB
	PERM. REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERM. REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERM. REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

J. R. BATCHELDER, V.P.

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 3 years.)

A. S. SWARER, PLANT MGR

SIGNATURE OF PRINCIPAL EXECUTIVE

OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503

286-3681

94

08

02

AREA CODE

NUMBER

YEAR

MO

DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

08/02/94

14:21

KOPPERS PORTLAND

001

Koppers003504

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)

KOPPERS INDUSTRIES, INC.

ADDRESS 7540 NW ST HELENS ROAD

PORTLAND, OR 97210

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

101003

0006

PERMIT NUMBER

DISCHARGE NUMBER

3077-J

47430

Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

FACILITY NORTHWEST PLANT DEQ #47430

LOCATION MULTNOMAH COUNTY

MONITORING PERIOD

FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	94	06	01		94	06	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (45-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW	SAMPLE MEASUREMENT	6,000								
	PERMIT REQUIREMENT	N/A	N/A	GPD						
TEMPERATURE	SAMPLE MEASUREMENT				58	60	62			
	PERMIT REQUIREMENT									
pH	SAMPLE MEASUREMENT				6.8	6.9	7.0			
	PERMIT REQUIREMENT									
OIL & GREASES	SAMPLE MEASUREMENT				N.D.	1.8	4			
	PERMIT REQUIREMENT									
PHENOLS	SAMPLE MEASUREMENT				N.D.	.05	.11			
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREON AND BASED ON MY KNOWLEDGE OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC 1001 AND 33 USC 1331b. (Provisions under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 3 years.)

A. J. KAMERER, PLANT MGR

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

J. R. BATCHELDER, V.P.

TYPED OR PRINTED

503
AREA CODE

286-3681
NUMBER

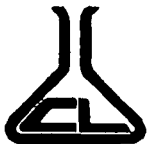
94
YEAR

07
MO

01
DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

A COPY OF THE SECOND QUARTER PAH RESULTS IS ATTACHED



Analytical Data

Koppers Industry

Job Number: 940607AY

Page Number: 3 of 3

Lab Sample ID: 940607AY-2

Field ID: WWT-4

Date/Time: 06/07/94 1500

Matrix: Waste Water

EPA Category: Conventional Parameters

Parameter	Method	Detection Limit	Analytical Result	Units	Analysis Date	Analyst
Oil & Grease	EPA 413.1	3.	4.	mg/L	06/09/94	DHN
Total Phenols	EPA 420.1	0.05	ND	mg/L	06/10/94	SVS

ND means none detected at or above the detection limit listed.

Analysis Performed: Polynuclear Aromatic Hydrocarbons in Waste Water, by EPA Method 8310, HPLC.

Compound	Detection Limit	Laboratory Blank	Sample Results	Sample Duplicate
Acenaphthene	150	ND	ND	ND
Acenaphthylene	150	ND	ND	ND
Anthracene	60	ND	ND	ND
Benzo(a)anthracene	10	ND	23	19
Benzo(b)fluoranthene	10	ND	26	27
Benzo(k)fluoranthene	15	ND	22	24
Benzo(g,h,i)perylene	20	ND	27	33
Benzo(a)pyrene	15	ND	43	43
Chrysene	10	ND	25	25
Dibenzo(a,h)anthracene	10	ND	ND	ND
Fluoranthene	75	ND	ND	ND
Fluorene	25	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	15	ND	40	39
Naphthalene	150	ND	ND	ND
Phenanthrene	25	ND	ND	ND
Pyrene	80	ND	ND	ND

206

Results expressed as µg/L unless otherwise noted.

ND means none detected at or above the detection limit listed.

COFFEY LABORATORIES, INC.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)
NAME KOPPERS INDUSTRIES, INC.
ADDRESS 7540 NW ST HELENS ROAD
PORTLAND, OR 97210

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) (17-19)
OR-100077-9 **0005**
PERMIT NUMBER **DISCHARGE NUMBER**

Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

3077-J
47430

FACILITY NORTHWEST PLANT
LOCATION MULTNOMAH COUNTY

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
94 05 01 94 05 31
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	5,806		GPD					N/A	4/31	EST.
	PERMIT REQUIREMENT	N/A	N/A								
TEMPERATURE	SAMPLE MEASUREMENT				64	64.5	66	° F	0	4/31	GRAB
	PERMIT REQUIREMENT						110				
pH	SAMPLE MEASUREMENT				6.5	6.5	6.6	SU	0	4/31	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASES	SAMPLE MEASUREMENT				N.D.	N.D.	N.D.	mg/L	0	4/31	GRAB
	PERMIT REQUIREMENT				N/A	10	15				
PHENOLS	SAMPLE MEASUREMENT				N.D.	.06	.10	mg/L	0	4/31	GRAB
	PERMIT REQUIREMENT				N/A	.5	.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

J. R. BATCHELDER, V.P.

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

A. S. KRAMERER, PLANT MGR

SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503
AREA
CODE

286-3681
NUMBER

94 06 01
YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

W. E. Swearingen
K-1800

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME KOPPERS INDUSTRIES, INC.
ADDRESS 7540 NW ST HELENS ROAD
PORTLAND, OR 97210

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16) (17-19)
OR-100077-9 **0004**
PERMIT NUMBER **DISCHARGE NUMBER**

Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

FACILITY NORTHWEST PLANT
LOCATION MULTNOMAH COUNTY

MONITORING PERIOD
FROM YEAR MO DAY TO YEAR MO DAY
94 04 01 94 04 30
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

3077-J
47430

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
FLOW	SAMPLE MEASUREMENT	6,000							N/A	4/30	EST.
	PERMIT REQUIREMENT	N/A	N/A								
TEMPERATURE	SAMPLE MEASUREMENT				52	54	56		0	4/30	GRAB
	PERMIT REQUIREMENT				N/A	N/A	N/A				
pH	SAMPLE MEASUREMENT				6.5	6.6	6.8		0	4/30	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASES	SAMPLE MEASUREMENT				N.D.	3.5	8		0	4/30	GRAB
	PERMIT REQUIREMENT				N/A	10	15				
PHENOLS	SAMPLE MEASUREMENT				N.D.	.01	.05		0	4/30	GRAB
	PERMIT REQUIREMENT				N/A	.5	7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	A. KAMERER, Plant Mgr. SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE		
J. R. BATCHELDER, V.P. TYPED OR PRINTED			503 286-3681 AREA CODE NUMBER	94 05 10 YEAR MO DAY		

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME KOPPERS INDUSTRIES, INC.
ADDRESS 7540 NW ST HELENS ROAD
PORTLAND, OR 97210

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) OR-100077-9 (17-19) 0003
PERMIT NUMBER DISCHARGE NUMBER

Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

FACILITY NORTHWEST PLANT
LOCATION MULTNOMAH COUNTY

MONITORING PERIOD
FROM YEAR MO DAY TO YEAR MO DAY
94 03 01 94 03 31
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

3077-J
47430

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT (38-39)	(3 Card Only) (46-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (18-43) QUALITY OR CONCENTRATION (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)							
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS										
FLOW	SAMPLE MEASUREMENT	17,419							N/A	12/31	EET							
	PERMIT REQUIREMENT																	
TEMPERATURE	SAMPLE MEASUREMENT				48	53	60		0	12/31	GRAB							
	PERMIT REQUIREMENT																	
PH	SAMPLE MEASUREMENT				6.5	6.6	6.8		0	12/31	GRAB							
	PERMIT REQUIREMENT																	
OIL & GREASES	SAMPLE MEASUREMENT				N.D.	3.5	14		0	12/31	GRAB							
	PERMIT REQUIREMENT																	
PHENOLS	SAMPLE MEASUREMENT				N.D.	.04	.08		0	12/31	GRAB							
	PERMIT REQUIREMENT																	
	SAMPLE MEASUREMENT																	
	PERMIT REQUIREMENT																	
	SAMPLE MEASUREMENT																	
	PERMIT REQUIREMENT																	
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 16 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)							TELEPHONE		DATE							
J.R. BATCHELDER, V.P.									S. KAMERER, PLANT MANAGER		503 286-3681		94	04	04			
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT							AREA CODE		NUMBER		YEAR		MO		DAY	

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)
NAME **KOPPERS INDUSTRIES INC.**
ADDRESS **7540 N.W. ST. HELENS RD.**
PORTLAND, OR 97210

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16) (17-19)

OR-100077-9

PERMIT NUMBER

0002

DISCHARGE NUMBER


Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

FACILITY **NORTHWEST PLANT**
LOCATION **MULTNOMAH COUNTY**

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	94	02	01		94	02	28
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

3077-J
47430

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
FLOW	SAMPLE MEASUREMENT	19286		GPD					N/A	12/28	EST.
	PERMIT REQUIREMENT	N/A	N/A								
TEMPERATURE	SAMPLE MEASUREMENT				41	46	51		0	12/28	GRAB
	PERMIT REQUIREMENT				N/A						
PH	SAMPLE MEASUREMENT				6.6	6.7	6.8		0	12/28	GRAB
	PERMIT REQUIREMENT				6.5		6.9				
OIL & GREASES	SAMPLE MEASUREMENT				N.D.	1.3	9		0	12/28	GRAB
	PERMIT REQUIREMENT				N/A	10	15				
PHENOLS	SAMPLE MEASUREMENT				.07	.10	.17		0	12/28	GRAB
	PERMIT REQUIREMENT				N/A	5	7.5				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

J.R. BATCHELDER, V.P.
ENVIRONMENTAL & TECHNICAL SVC.

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED
AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED
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THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC 1001 AND
33 USC 1319. (Violators under these statutes may include fines up to \$10,000
and/or maximum imprisonment of between 6 months and 3 years.)

A. J. SWARINGER, PLANT MANAGER

SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE

503-286-3681

DATE

94 03 07

AREA
CODE

NUMBER

YEAR

MO

DAY

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME KOPPERS INDUSTRIES INC.

ADDRESS 7540 N.W. ST. HELENS RD.
PORTLAND, OR 97210

FACILITY NORTHWEST PLANT
LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)
OR 100077-9
PERMIT NUMBER

(17-19)
0001
DISCHARGE NUMBER

3077-J
47430

Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	94	01	01		94	01	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)		
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM					
FLOW	SAMPLE MEASUREMENT	11613		GAD				N/A	8/31	EST.		
	PERMIT REQUIREMENT		N/A									
TEMPERATURE	SAMPLE MEASUREMENT				50	51	52	0	8/31	GRAB		
	PERMIT REQUIREMENT						110					
PH	SAMPLE MEASUREMENT				6.3	6.6	6.8	0	8/31	GRAB		
	PERMIT REQUIREMENT				6.0		9.0					
OIL & GREASES	SAMPLE MEASUREMENT				N.D.	4.4	14	0	8/31	GRAB		
	PERMIT REQUIREMENT					10	15					
PHENOLS	SAMPLE MEASUREMENT				.05	.10	.15	0	8/31	GRAB		
	PERMIT REQUIREMENT					.5	.7					
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)						TELEPHONE		DATE		
AMOS S. KAMERER PLANT MANAGER												
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT						503	286-3681	94	02	08
								AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

THE 1ST QUARTER PAH TEST RESULTS ARE ATTACHED



Amper 1/12/94

Koppers Industry

Job#: WG-940111K-2

Page 2

<u>Parameter</u>	<u>Method</u>	<u>Detection Limits</u>	<u>WWT 3 Results</u>	<u>WWT 4 Results</u>
Oil & Grease	EPA 413.1	3	ND	ND
Total Phenols	SM 420.1	0.05	0.14	0.15

Results expressed as mg/L unless otherwise noted.

SM means Standard Methods for the Examination of Water and Wastewater, 1985, 16th Edition.

ND means none detected at or above the detection limit listed.

Analysis Performed: Polynuclear Aromatic Hydrocarbons, by EPA Method 8310, Liquid Chromatography.

<u>Compound</u>	<u>Detection Limit</u>	<u>Laboratory Blank</u>	<u>WWT 4 Results</u>
Acenaphthene	100	ND	ND
Acenaphthylene	100	ND	ND
Anthracene	20	ND	ND
Benzo(a)anthracene	2.0	ND	ND
Benzo(b)fluoranthene	2.5	ND	2.7
Benzo(k)fluoranthene	2.5	ND	2.8
Benzo(g,h,i)perylene	6.0	ND	ND
Benzo(a)pyrene	2.5	ND	5.4
Chrysene	3.0	ND	ND
Dibenzo(a,h)anthracene	6.0	ND	ND
Fluoranthene	20	ND	ND
Fluorene	20	ND	ND
Indeno(1,2,3-c,d)pyrene	6.0	ND	ND
Naphthalene	100	ND	ND
Phenanthrene	20	ND	ND
Pyrene	20	ND	ND

Results expressed as $\mu\text{g/L}$ unless otherwise noted.

ND means none detected at or above the detection limit listed.

COFFEY LABORATORIES, INC.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003513

PERMITTEE NAME/ADDRESS (Include

Facility Name/Location if different)

NAME KOPPERS INDUSTRIES, INC.

ADDRESS 7540 NW ST HELENS ROAD

PORTLAND, OR 97210

FACILITY NORTHWEST PLANT

LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

OR-100077-9

PERMIT NUMBER

0012

DISCHARGE NUMBER

3077-J

47430

Form Approved

OMB No. 2040-0004

Expires 3-31-88

MONITORING PERIOD

FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
93	12	01	93	12	31
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (46-53)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
45-000-1-10-31-14-516										
FLOW	SAMPLE MEASUREMENT	14,516		GAD				N/A	10/31	EST.
	PERMIT REQUIREMENT		N/A							
TEMPERATURE	SAMPLE MEASUREMENT				45	48	52	0	10/31	GRAB
	PERMIT REQUIREMENT						110			
pH	SAMPLE MEASUREMENT				6.7	7.0	7.2	0	10/31	GRAB
	PERMIT REQUIREMENT				6.0		9.0			
OIL & GREASES	SAMPLE MEASUREMENT				N.D.	4	10	0	10/31	GRAB
	PERMIT REQUIREMENT					10	15			
PHENOLS	SAMPLE MEASUREMENT				N.D.	.04	.08	0	10/31	GRAB
	PERMIT REQUIREMENT					.5	.7			
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

AMOS S. KAMERER
PLANT MANAGER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503
AREA
CODE

286-3681
NUMBER

94
YEAR

01
MO

07
DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

THE 4TH QUARTER PAH TEST RESULTS ARE ATTACHED

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME **KOPPERS INDUSTRIES INC.**

ADDRESS **7540 N.W. ST. HELENS RD.**

PORTLAND, OR 97210

FACILITY **NORTHWEST PLANT**

LOCATION **MULTNOMAH COUNTY**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

OR-100077-9

PERMIT NUMBER

0011

DISCHARGE NUMBER

3077-J

47430

Form Approved

OMB No. 2040-0004

Expires 3-31-88

MONITORING PERIOD

FROM

YEAR MO DAY
93 11 01
(20-21) (22-23) (24-25)

TO

YEAR MO DAY
93 11 30
(26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	6,000							N/A	4/30	EST.
	PERMIT REQUIREMENT		N/A	GPD							
TEMPERATURE	SAMPLE MEASUREMENT				45	51.5	58	°F	0	4/30	GRAB
	PERMIT REQUIREMENT						110				
PH	SAMPLE MEASUREMENT				6.8	7.1	7.4	SU	0	4/30	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASES	SAMPLE MEASUREMENT				N.D.	2.5	5	MG/L	0	4/30	GRAB
	PERMIT REQUIREMENT					10	15				
PHENOLS	SAMPLE MEASUREMENT				N.D.	N.D.	N.D.	MG/L	0	4/30	GRAB
	PERMIT REQUIREMENT					.5	.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

AMOS S. KAMERER
PLANT MANAGER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

503 286-3681

AREA CODE

NUMBER

DATE

93 12 14

YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME KOPPERS INDUSTRIES INC.

ADDRESS 7540 N.W. ST. HELENS ROAD

PORTLAND, OR 97210

FACILITY R NORTHWEST PLANT

LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

OR-100077-9

PERMIT NUMBER

0001

DISCHARGE NUMBER

3077-J

47430

Form Approved
OMB No. 2040-0004
Expires 3-31-88

MONITORING PERIOD

FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	93	10	01		93	10	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	<div></div>	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS				
FLOW XXXXXXXXXX	SAMPLE MEASUREMENT	2903								N/A	2/31	EST.
	PERMIT REQUIREMENT		N/A									
TEMP	SAMPLE MEASUREMENT				63	63	63	*F	0	2/31	GRAB	
	PERMIT REQUIREMENT											
pH	SAMPLE MEASUREMENT				7.1	7.2	7.3	SU	0	2/31	GRAB	
	PERMIT REQUIREMENT				6.0		9.0					
OIL & GREASES	SAMPLE MEASUREMENT				ND	<1.5	<3.0	mg/L (ppm)	0	2/31	GRAB	
	PERMIT REQUIREMENT											
PHENOLS	SAMPLE MEASUREMENT				ND	ND	ND	mg/L (ppm)	0	2/31	GRAB	
	PERMIT REQUIREMENT					00.5	0.7					
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE		DATE		
A. S. KAMERER						
PLANT MANAGER						
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	503 AREA CODE	286-3681 NUMBER	93 YEAR	11 MO	08 DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)

NAME KOPPERS INDUSTRIES INC.

ADDRESS 7540 N.W. ST. HELENS RD.

PORTLAND, OR 97210

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

OR-100077-9

PERMIT NUMBER

0001

DISCHARGE NUMBER

3077-J

47430

Form Approved

OMB No. 2040-0004

Expires 3-31-88

FACILITY NORTHWEST PLANT

LOCATION MULTNOMAH COUNTY

MONITORING PERIOD

FROM

YEAR MO DAY
93 09 01

TO

YEAR MO DAY
93 09 30

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
FLOW NO DISCHARGE	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
TEMP	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
PH	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
OIL & GREASES	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
PHENOLS	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)					TELEPHONE		DATE		
AMOS. S. KAMERER PLANT MANAGER							503 286-3681		93	10	18
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

AS WE HAD NO RAIN IN SEPTEMBER, WE DID NOT HAVE ANY DISCHARGE. WE DID COLLECT A SAMPLE ON 9/30/93 AND THE PAH RESULTS OF THAT SAMPLE ARE ATTACHED.

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME KOPPERS INDUSTRIES INC.

ADDRESS 7540 N.W. ST. HELENS RD.

PORTLAND, OR 97210

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

OR-100077-9

PERMIT NUMBER

0001

DISCHARGE NUMBER

3077-BJ

47430

Form Approved

OMB No. 2040-0004

Expires 3-31-88

FACILITY NORTHWEST PLANT

LOCATION MULTNOMAH COUNTY

MONITORING PERIOD

FROM YEAR 93 MO 08 DAY 01 TO YEAR 93 MO 08 DAY 31
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	2903	---	GPD					N/A	2/31	EST
	PERMIT REQUIREMENT										
TEMP	SAMPLE MEASUREMENT				66	66.5	67	°F	0	2/31	GRAB
	PERMIT REQUIREMENT										
PH	SAMPLE MEASUREMENT				6.6	6.6	6.7	SU	0	2/31	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASES	SAMPLE MEASUREMENT				NO	<1.5	<3.0	MG/L	0	2/31	GRAB
	PERMIT REQUIREMENT					10	15	(PPM)			
PHENOLS	SAMPLE MEASUREMENT				NO	NO	NO	MG/L	0	2/31	GRAB
	PERMIT REQUIREMENT					0.5	0.7	(PPM)			
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

AMOS S. KAMERER
PLANT MANAGER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503
AREA CODE

286-3681
NUMBER

93
YEAR

09
MO.

09
DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NOTE TO GEORGE DAVIS: ATTACHED IS THE 6/22/93 PAH REPORT THAT WE DISCUSSED

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)
NAME **KOPPERS INDUSTRIES INC.**
ADDRESS **7540 NW ST HELENS RD.**
PORTLAND, OR 97210

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved
OMB No. 2040-0004
Expires 3-31-88

(2-16)
OR-100077-9

(17-19)
0001

3077-J
47430

PERMIT NUMBER

DISCHARGE NUMBER

FACILITY **NORTHWEST PLANT**
LOCATION **MULTNOMAH COUNTY**

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
93 07 01 93 07 31
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW	SAMPLE MEASUREMENT	2903	--	GPD					N/A	2/31 EST
	PERMIT REQUIREMENT		N/A							
TEMP	SAMPLE MEASUREMENT				68	68	68	°F	0	2/31 GRAB
	PERMIT REQUIREMENT									
PH	SAMPLE MEASUREMENT				6.7	6.7	6.7	SU	0	2/31 GRAB
	PERMIT REQUIREMENT				6.0		9.0	MG/L	0	2/31 GRAB
OIL & GREASES	SAMPLE MEASUREMENT				<0.7	<0.7	<0.7	MG/L	0	2/31 GRAB
	PERMIT REQUIREMENT					10	15			
PHENOLS	SAMPLE MEASUREMENT				0.08	0.085	0.09	MG/L	0	2/31 GRAB
	PERMIT REQUIREMENT					0.5	0.7	PPM		
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

AMOS S. KAMERER
PLANT MANAGER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503 286-3681 93 08 18
AREA CODE NUMBER YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME KOPPERS INDUSTRIES INC.
ADDRESS 7540 NW ST HELENS RD.
PORTLAND, OR 97210

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16) (17-19)
OR-100077-9
PERMIT NUMBER
001
DISCHARGE NUMBER

Form Approved
OMB No. 2040-0004
Expires 3-31-88

FACILITY NORTHWEST PLAND
LOCATION MULTNOMAH COUNTY

3077-J
47430

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	93	6	1		93	6	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	<div></div>	(3 Card Only) (46-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	3000		GPO					M/A	2/30	EST.
	PERMIT REQUIREMENT		N/A								
TEMP	SAMPLE MEASUREMENT				64	64	64	OF	0	2/30	GRAB
	PERMIT REQUIREMENT										
PH	SAMPLE MEASUREMENT				6.3	6.4	6.5	SU	0	2/30	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASES	SAMPLE MEASUREMENT				ND	<1.5	<3.0	MG/L	0	2/30	GRAB
	PERMIT REQUIREMENT					10	15				
PHENOLS	SAMPLE MEASUREMENT				ND	ND	ND	(MG/L)	0	2/30	GRAB
	PERMIT REQUIREMENT					0.5	0.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

AMOS S. KAMERER
PLANT MANAGER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE

503 286-3681

AREA
CODE

NUMBER

DATE

93 08 18

YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME KOPPERS INDUSTRIES INC
 ADDRESS 7540 NW ST HELENS RD
PORTLAND OR 97210

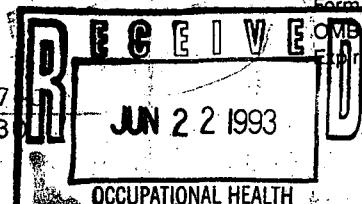
FACILITY NORTHWEST PLANT
 LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)

PERMIT NUMBER OR-100077-9
 DISCHARGE NUMBER 0001

3077
 4743

MONITORING PERIOD
 FROM YEAR 93 MO 5 DAY 1 TO YEAR 93 MO 5 DAY 31
 (20-21) (22-23) (24-25) (26-27) (28-29) (30-31)



Form Approved
 OMB No. 2040-0004
 Expires 3-31-88

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) (46-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW	SAMPLE MEASUREMENT	5806							N/A	4/31 EST
	PERMIT REQUIREMENT		N/A	GPD						
TEMP	SAMPLE MEASUREMENT				62	62.25	64		6/31	GRAB
	PERMIT REQUIREMENT						110			
PH	SAMPLE MEASUREMENT				6.3	6.725	7.1		0/31	GRAB
	PERMIT REQUIREMENT				6.0		9.0			
OIL & GREASE	SAMPLE MEASUREMENT				<0.7	<0.7	<0.7		0/31	GRAB
	PERMIT REQUIREMENT					10	15			
PHENOLS	SAMPLE MEASUREMENT				0.05	0.103	0.18		0/31	GRAB
	PERMIT REQUIREMENT					0.5	0.7			
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 JOHN A OXFORD
 PLANT MANAGER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

TELEPHONE
 503 286-3681

DATE
 93 6 18

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER" and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
5. Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE: for municipalities with secondary treatment requirement, enter 30-day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM".)
6. Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit (e.g., Enter "CONT." for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.)
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT" (e.g., Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.)

(FOLD HERE FIRST)

10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT," "TELEPHONE NUMBER" and "DATE" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

This report is required by law (33 U.S.C. 1318, 40 C.F.R. 125.27). Failure to report or failure to report truthfully can result in civil penalties not to exceed \$10,000 per day of violation, or in criminal penalties not to exceed \$25,000 per day of violation, or by imprisonment for not more than one year, or by both.

(FOLD HERE SECOND)

(FOLD HERE THIRD)

STAPLE HERE

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME KOPPERS INDUSTRIES INC
 ADDRESS 7540 NW ST HELENS RD
PORTLAND OR 97210

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

000100077-9
 PERMIT NUMBER

0001
 DISCHARGE NUMBER

Form Approved
 OMB No. 2040-0004
 Expires 3-31-88

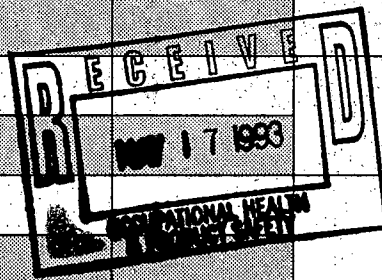
FACILITY NORTHWEST PLANT
 LOCATION MULTNOMAH COUNTY

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
93	4	1	93	4	30
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

3077-J
 47430

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
FLOW	SAMPLE MEASUREMENT	3000							NA	2/30	EST
	PERMIT REQUIREMENT		EST	GRD							
TEMP	SAMPLE MEASUREMENT				55	57	59	OF	O	2/30	GRAB
	PERMIT REQUIREMENT						100				
PH	SAMPLE MEASUREMENT				6.9	6.9	6.9		O	2/30	GRAB
	PERMIT REQUIREMENT				6.0		9.0	SU			
OIL & GREASE	SAMPLE MEASUREMENT				0.8	0.85	0.9	MG/L	O	2/30	GRAB
	PERMIT REQUIREMENT					10	15	CON/L			
PHENOLS	SAMPLE MEASUREMENT				0.14	0.14	0.14	MG/L	O	2/30	GRAB
	PERMIT REQUIREMENT					0.5	0.7	(PPM)			
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										



NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 JOHN A. OXFORD
 PLANT MANAGER
 TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
 TELEPHONE
 503 286-3681
 DATE
 93 5 13

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Koppers0035523

GENERAL INSTRUCTIONS

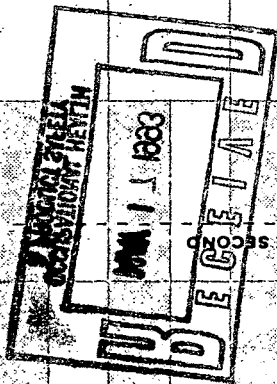
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2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER," and "DISCHARGE NUMBER," where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
5. Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE: to municipalities with secondary treatment requirement, enter 30-day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM.")
6. Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit. (e.g., Enter "CONT" for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.)
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT" (e.g., Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.)

(FOLD HERE FIRST)

10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT," "TELEPHONE NUMBER," and "DATE" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

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(FOLD HERE SECOND)

PLACE
STAMP
HERE

JOHN V. ORRICO
MANAGER

(FOLD HERE THIRD)

STAPLE HERE

88-1-3-6
BIOLOGICAL
BIOLOGICAL
BIOLOGICAL

U-7103
CENTRAL

DISCHARGE NUMBER
1990
00000000

DATE
06/04/90
00000000

DISCHARGE MONITORING REPORT (DMR) FORM

STATION
00000000

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME KOPPERS INDUSTRIES INC
 ADDRESS 7540 NW ST HELENS RD
PORTLAND OR 97210

FACILITY NORTHWEST PLANT
 LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)
 (2-16) (17-19)

OR 100077-9
 PERMIT NUMBER

0001
 DISCHARGE NUMBER

3077-J
 47430

RECEIVED
 APR 19 1993
 OCCUPATIONAL HEALTH & PRODUCT SAFETY
 For Approved DMR No. 3040-0004
 Expires 3/31/88

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
93	3	1	93	3	31

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	<div></div>	(3 Card Only) (46-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	2903		GRD					N/A	2/31	EST
	PERMIT REQUIREMENT		EST								
TEMP	SAMPLE MEASUREMENT								0	2/31	GRAB
	PERMIT REQUIREMENT				63	64	65	° F			
PH	SAMPLE MEASUREMENT				6.8	6.85	6.9		0	2/31	GRAB
	PERMIT REQUIREMENT				6.0		9.0	SU			
OIL & GREASE	SAMPLE MEASUREMENT				0	0.3	0.6	MG	0	2/31	GRAB
	PERMIT REQUIREMENT					10	15	/L			
PHENOLS	SAMPLE MEASUREMENT				0	0.03	0.06	MG/L	0	2/31	GRAB
	PERMIT REQUIREMENT					0.5	0.7	(PPM)			
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
JOHN A OXFORD
PLANT MANAGER
 TYPED OR PRINTED

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John A Oxford
 SIGNATURE OF PRINCIPAL EXECUTIVE
 OFFICER OR AUTHORIZED AGENT

TELEPHONE 503 286-3681
 DATE 93 4 14
 AREA CODE NUMBER YEAR MO DAY

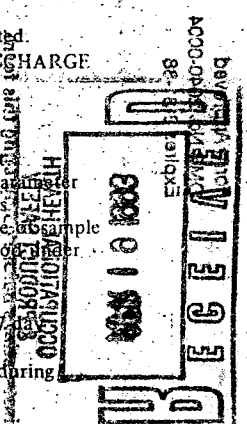
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

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DISCHARGE NUMBER	
1	2
3	4
5	6
7	8
9	0

MONITORING PERIOD	
1	2
3	4
5	6
7	8
9	0

1	2	3	4	5	6	7	8	9	0
1	2	3	4	5	6	7	8	9	0
1	2	3	4	5	6	7	8	9	0
1	2	3	4	5	6	7	8	9	0
1	2	3	4	5	6	7	8	9	0
1	2	3	4	5	6	7	8	9	0
1	2	3	4	5	6	7	8	9	0
1	2	3	4	5	6	7	8	9	0
1	2	3	4	5	6	7	8	9	0
1	2	3	4	5	6	7	8	9	0

FOLD HERE SECOND

FOLD HERE THIRD

DO NOT WRITE IN THESE SPACES

1	2	3	4	5	6	7	8	9	0
1	2	3	4	5	6	7	8	9	0
1	2	3	4	5	6	7	8	9	0
1	2	3	4	5	6	7	8	9	0
1	2	3	4	5	6	7	8	9	0
1	2	3	4	5	6	7	8	9	0
1	2	3	4	5	6	7	8	9	0
1	2	3	4	5	6	7	8	9	0
1	2	3	4	5	6	7	8	9	0
1	2	3	4	5	6	7	8	9	0

*36
Post-It brand fax transmittal memo 7671

of pages 1

To: <u>Bill Swearingen</u>	From: <u>J. Oxford</u>
Co: <u>K-1800</u>	Co: <u>Portland</u>
Dept:	Phone:
Fax #	Fax #

Doc. ID: 8310.FOR
 Volume:
 Section:
 Revision #: 00
 Date: January 28, 1992
 Page 1

Analysis Requested: Polynuclear Aromatic Hydrocarbons in Water by EPA Method 8310, HPLC.

Client: Koppers Job # WL 930302 AY-3

Analyst: DH/B Report Date: 3/26/93

Date Analyzed: 3/26/93 Date Extracted: 3/8/93

Logbook Reference: Log 346 p. 30 Reviewed _____

Prep. Info/Comments:

Units: ug/l

P.A.H. T-1

COMPOUND	DETECTION LIMIT	LABORATORY BLANK	(AY3)		
Acenaphthene	10		ND		
Acenaphthylene	10		↓		
Anthracene	0.1		↓		
Benzo(a)anthracene	1.0		7.2	7.2	✓
Benzo(b)fluoranthene	2.0		ND		
Benzo(k)fluoranthene	2.0		↓		
Benzo(g,h,i)perylene	4.0		↓		
Benzo(a)pyrene	2.0		6.3	6.3	✓
Chrysene	1.0		7.2 (4.0) 4.0		✓
Dibenzo(a,h)anthracene	4.0		ND		
Fluoranthene	2.0		12.5	12.5	✓
Fluorene	2.0		5.7 (ND)		
Indeno(1,2,3-cd)pyrene	4.0		ND		
Naphthalene	8.0		↓		
Phenanthrene	2.0		5.4	5.4	✓
Pyrene	4.0		11.8	11.8	✓

Total →

OK

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME **KOPPERS INDUSTRIES INC.**

ADDRESS **7540 N.W. ST. HELENS RD.
PORTLAND, OR 97210**

FACILITY **NORTHWEST PLANT**

LOCATION **MULTNOMAH COUNTY**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

OR-100077-9

PERMIT NUMBER

0001

DISCHARGE NUMBER

Form Approved

OMB No. 2040-0004

Expires 3-31-88

MONITORING PERIOD

FROM YEAR MO. DAY TO YEAR MO. DAY
93 02 01 TO 93 02 28
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

3077-J

47430

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	NO FLOW									
	PERMIT REQUIREMENT										
TEMP	SAMPLE MEASUREMENT				NO FLOW						
	PERMIT REQUIREMENT										
PH	SAMPLE MEASUREMENT				NO FLOW						
	PERMIT REQUIREMENT										
OIL & GREASE	SAMPLE MEASUREMENT				NO FLOW						
	PERMIT REQUIREMENT										
PHENOLS	SAMPLE MEASUREMENT				NO FLOW						
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

JOHN A. OXFORD
PLANT MANAGER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND, BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503 286-3681 93 3 12
AREA CODE NUMBER YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

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9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT" (e.g., Enter "GRAB" for individual sample, "24H" for 24-hour composite, "N/A" for continuous monitoring, etc.)

FOLD HERE FIRST

10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT," "TELEPHONE NUMBER" and "DATE" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

This report is required by law (33 U.S.C. 1318, 40 C.F.R. 125.27). Failure to report or failure to report truthfully can result in civil penalties not to exceed \$10,000 per day of violation; or in criminal penalties not to exceed \$25,000 per day of violation, or by imprisonment for not more than one year, or by both.

FOLD HERE SECOND

STAMP
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DISCHARGE

DISCHARGE

FOLD HERE THIRD

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Form 100-100-0000
OMB No. 5000-0000
88-10-60-100-0000

DISCHARGE MONITORING REPORT (DMR)

DISCHARGE MONITORING REPORT (DMR)

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME: KOPPERS INDUSTRIES INC
Address: 7540 NW ST HELENS RD
PORTLAND OR 97210

FACILITY: NORTHWEST PLANT
LOCATION: MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16) (17-19)

OR-100077-9

PERMIT NUMBER

0001

DISCHARGE NUMBER

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
93 01 01 TO 93 01 31
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

3077

47430

FEB 16 1993

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)			UNIT (62-68)	ANALYSIS (69-70)	SAMPLE TYPE (71-72)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW	SAMPLE MEASUREMENT	NO FLOW								
	PERMIT REQUIREMENT									
TEMP	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
PH	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
OIL & GREASE	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
PHENOLS	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

JOHN A. OXFORD
PLANT MANAGER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503

286-3681

93

2

12

AREA CODE

NUMBER

YEAR

MO

DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER" and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
5. Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE: to municipalities with secondary treatment requirement, enter 30 day average of sample measurements under "AVERAGE" and enter maximum 7 day average of sample measurements obtained during monitoring period under "MAXIMUM".)
6. Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7 day average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit (e.g., Enter "CONT" for continuous monitoring, "1/1" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.)
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT" (e.g., Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.)

(FOLD HERE FIRST)

10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT," "TELEPHONE NUMBER" and "DATE" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

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(FOLD HERE SECOND)

STAMP
PLACE
HERE

STAPLE HERE

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME **KOPPERS INDUSTRIES INC**

ADDRESS **7540 NW ST HELENS RD
PORTLAND OR 97210**

FACILITY **NW PLANT**

LOCATION **MULTNOMAH COUNTY**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16) (17-19)

OR **100077-9**
PERMIT NUMBER

0001
DISCHARGE NUMBER

Form Approved
OMB No. 2040-0004
Expires 3-31-88

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
92 12 1 92 12 31
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31) **3077-J 47430**

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT PERMIT REQUIREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53)				NO. EX. (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS				
FLOW	SAMPLE MEASUREMENT	5086								N/A	4/31	EST
	PERMIT REQUIREMENT		EST	GRD								
TEMP	SAMPLE MEASUREMENT				42	47.5	52	0 f	4x	4/31	GRAB	
	PERMIT REQUIREMENT											
PH	SAMPLE MEASUREMENT				7.0	7.175	100 XXXX 7.4		0	4/31	GRAB	
	PERMIT REQUIREMENT				6.0		9.0	SU PMY				
OIL & GREASE	SAMPLE MEASUREMENT				1.2	1.275	1.4	MG/L	0	4/31	GRAB	
	PERMIT REQUIREMENT											
PHENOLS	SAMPLE MEASUREMENT				0.13	0.155	0.19	MG/L	0	4/31	GRAB	
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT					0.5	0.7	(PPM)				
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											

RECEIVED
APR 19 1993

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE	DATE				
JOHN A. OXFORD PLANT MGR MANAGER							
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	500A CODE	286-3681	93	1	18	DAY

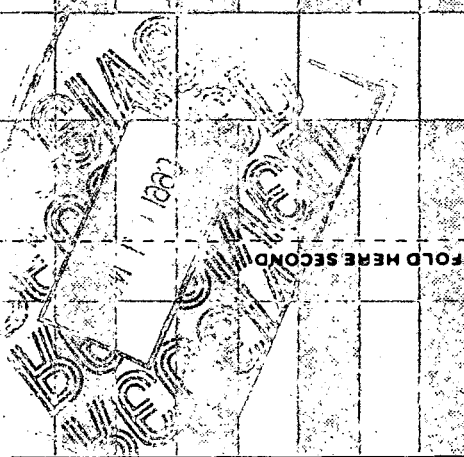
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
 2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER" and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
 3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
 4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
 5. Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE: to municipalities with secondary treatment requirement, enter 30-day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM".)
 6. Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
 7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
 8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit. (e.g., Enter "CONT" for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.)
 9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT" (e.g., Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.)
- (FOLD HERE FIRST)
10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
 11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
 12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT," "TELEPHONE NUMBER" and "DATE" at bottom of form.
 13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
 14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

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STAMP PLACE

000000 1A 100000

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME **KOPPERS INDUSTRIES INC**

ADDRESS **7540 NW ST HELENS RD
PORTLAND OR 97210**

FACILITY **N.W. PLANT**

LOCATION **MULTNOMAH COUNTY**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

OR 100077-9
PERMIT NUMBER

0001
DISCHARGE NUMBER

OCCUPATIONAL HEALTH
& PRODUCT SAFETY

3077-J
47430

DEC 17 1992

Form Approved
OMB No. 2040-0004
Expires 3-31-88

OK

MONITORING PERIOD						
YEAR	MO	DAY	-TO-	YEAR	MO	DAY
92	11	1		92	11	30
(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW	SAMPLE MEASUREMENT	3000						N/A	2/30	EST
	PERMIT REQUIREMENT		EST	GPD						
TEMP	SAMPLE MEASUREMENT				46	46	46	0	2/30	GRAB
	PERMIT REQUIREMENT						100	0		
PH	SAMPLE MEASUREMENT				7.4	7.45	7.5	0	2/30	GRAB
	PERMIT REQUIREMENT									
OIL & GREASE	SAMPLE MEASUREMENT				6.0		9.0	0	2/30	GRAB
	PERMIT REQUIREMENT				0.6	0.6	0.6	0		
PHENOLS	SAMPLE MEASUREMENT				N/D	0.03	0.06	0	2/30	GRAB
	PERMIT REQUIREMENT					0.5	0.7			
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

JOHN A. OXFORD
PLANT MANAGER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503 286-3681
AREA CODE NUMBER

92 12 14
YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)" "PERMIT NUMBER" and "NO DISCHARGE".
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
5. Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE: to municipalities with secondary treatment requirement, enter 30-day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM".)
6. Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit. (e.g. Enter "CONT" for continuous monitoring, "1/1" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.)
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT" (e.g. Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.)

(FOLD HERE FIRST)

10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT," "TELEPHONE NUMBER" and "DATE" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME **KOPPEL INDUSTRIES INC**

ADDRESS **7540 NW ST HELENS RD**

PORTLAND OR 97210

FACILITY **NORTHWEST PLANT**

LOCATION **MULTNOMAH COUNTY**

OCCUPATIONAL HEALTH & PRODUCT SAFETY

NOV 16 1992

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

OR **100077-9**

PERMIT NUMBER

0001

DISCHARGE NUMBER

MONITORING PERIOD

FROM
YEAR MO DAY
(20) **92** (21) **10** (22) **25**

TO
YEAR MO DAY
(26) **92** (27) **10** (28) **31**

3077-J

47430

Form Approved
OMB No. 2040-0004
Expires 3-31-88

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)			UNITS	NO EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
FLOW	SAMPLE MEASUREMENT	2903							N/A	2/31	EST
	PERMIT REQUIREMENT		NA	CPD							
TEMP	SAMPLE MEASUREMENT				60	60	60		0	2/31	GRAB
	PERMIT REQUIREMENT						100	O F			
PH	SAMPLE MEASUREMENT				6.5	6.55	6.6		0	2/31	GRAB
	PERMIT REQUIREMENT				6.0		9.0	SU			
OIL & GREASE	SAMPLE MEASUREMENT				0.9	1.25	1.0	MG/L	0	2/31	GRAB
	PERMIT REQUIREMENT										
PHENOLS	SAMPLE MEASUREMENT				ND			MG/L	0	2/31	GRAB
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT				0.5	0.7		(PDM)			
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

*Should have a number
i.e. <0.0??*

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

JOHN A OXFORD

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

AREA CODE

NUMBER

YEAR

MO

DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER," and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
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9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT" (e.g. Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.)
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FOLD HERE SECOND

FOLD HERE THIRD

STAPLE HERE

PLACE
STAMP
HERE

PERMITTEE NAME/ADDRESS (Include Facility Name/Location, if different)

NAME KOPPERS INDUSTRIES INC
 ADDRESS 7540 NW ST HELENS RD
PORTLAND OR 97210

FACILITY NORTHWEST PLANT
 LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

OR 100077-9
 PERMIT NUMBER

001
 DISCHARGE NUMBER

OCCUPATIONAL HEALTH
 & PRODUCT SAFETY

Form Approved
 OMB No. 2040-0004
 Expires 3-31-88

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
92	9	1		92	9	30
(2021)	(2023)	(2025)		(2027)	(2029)	(2031)

3077-J

47430

OCT 19 1992

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW	SAMPLE MEASUREMENT	NO FLOW								
	PERMIT REQUIREMENT									
TEMP	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
PH	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
OIL & GREASE	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
PHENOLS	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

JOHN A. OXFORD
 PLANT MANAGER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE
 OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

502 286-3681 92 10 13
 AREA CODE NUMBER YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER," and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
5. Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE: to municipalities with secondary treatment requirement, enter 30-day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM".)
6. Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit (e.g., Enter "CONT." for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.)
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT" (e.g., Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.)

(FOLD HERE FIRST)

10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT," "TELEPHONE NUMBER" and "DATE" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

This report is required by law (33 U.S.C. 1318; 40 C.F.R. 125.27). Failure to report or failure to report truthfully can result in civil penalties not to exceed \$10,000 per day of violation; or in criminal penalties not to exceed \$25,000 per day of violation, or by imprisonment for not more than one year, or by both.

FOLD HERE SECOND

FOLD HERE THIRD

STAPLE HERE

HERE
STAMP
PLACES

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)

NAME KOPPERS INDUSTRIES INC

ADDRESS 7540 NW ST HELENS RD
PORTLAND OR 97210

FACILITY NORTHWEST PLANT

LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

OR-100077-9
PERMIT NUMBER

001
DISCHARGE NUMBER

Form Approved
OMB No. 2040-0004
Expires 3-31-88

OCCUPATIONAL HEALTH
& SAFETY

MONITORING PERIOD

FROM

YEAR MO DAY
92 8 1
(20-21) (22-23) (24-25)

TO

YEAR MO DAY
92 8 31
(26-27) (28-29) (30-31)

SEP 14 1992
NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			(46-53)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS					
FLOW	SAMPLE MEASUREMENT	NO FLOW			NO FLOW								
	PERMIT REQUIREMENT												
TEMP	SAMPLE MEASUREMENT	NO FLOW			NO FLOW								
	PERMIT REQUIREMENT												
PH	SAMPLE MEASUREMENT				NO FLOW								
	PERMIT REQUIREMENT												
OIL & GREASE	SAMPLE MEASUREMENT				NO FLOW NO EXCN								
	PERMIT REQUIREMENT												
PHENOLS	SAMPLE MEASUREMENT				NO FLOW								
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE	DATE			
JOHN A OXFORD PLANT MANAGER			503 286-3681	92	9	11
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO.	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER," and "DISCHARGE NUMBER," where indicated. (A separate form is required for each discharge.)
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14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

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(FOLD HERE SECOND)

PLACE
STAMP
HERE

(FOLD HERE THIRD)

STAPLE HERE

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)

NAME KOPPERS INDUSTRIES INC
ADDRESS 7540 NW ST HELENS RD
PORTLAND OR 97210

FACILITY NORTHWEST PLANT
LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

OR-100077-9
PERMIT NUMBER

001
DISCHARGE NUMBER

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
92 7 1 92 7 31
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

OCCUPATIONAL HEALTH
& PRODUCT SAFETY

AUG 17 1992
3077-J

Form Approved
OMB No. 2040-0004
Expires 3-31-88

47430
NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) (46-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW	SAMPLE MEASUREMENT	NO FLOW			NO FLOW					
	PERMIT REQUIREMENT									
TEMP	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
PH	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
OIL & GREASE	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
PHENOLS	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE	DATE		
JOHN A. OXFORD PLANT MANAGER		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	503 286-3681 AREA CODE NUMBER	92 08 14 YEAR MO DAY	
TYPED OR PRINTED					

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

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(FOLD HERE SECOND)

(FOLD HERE THIRD)

STAPLE HERE

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME KOPPERS INDUSTRIES INC
ADDRESS 7540 NW ST HELENS RD
PORTLAND OR 97210

FACILITY NORTHWEST PLANT
LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

OR-100077-9

PERMIT NUMBER

DISCHARGE NUMBER

OCCUPATIONAL HEALTH
& PRODUCT SAFETY

Form Approved
OMB No. 2040-0004
Expires 3-31-88

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
92 5 1 92 5 31
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

3077-JUN 16 1992

47430
NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) (46-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW	SAMPLE MEASUREMENT	NO FLOW	OK!		NO FLOW					
	PERMIT REQUIREMENT									
TEMP	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
PH	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
OIL & GREASE	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
PHENOLS	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

JOHN A OXFORD
PLANT MANAGER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE

503 286-3681

AREA
CODE

NUMBER

DATE

92 06 12

YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

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(FOLD HERE SECOND)

HERE
STAMP
PLACE

STAPLE HERE

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME **KOPPERS INDUSTRIES INC**
 ADDRESS **7540 NW ST HELENS RD**
PORTLAND OR 97210

FACILITY **NORTHWEST PLANT**
 LOCATION **MULTNOMAH COUNTY**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)

(2-16) **OR-100077-9** (17-19) **001**
 PERMIT NUMBER DISCHARGE NUMBER

OCCUPATIONAL HEALTH & PRODUCT SAFETY

Form Approved
 OMB No. 2040-0004
 Expires 3-31-88

MAY 18 1992

MONITORING PERIOD
 FROM YEAR MO DAY TO YEAR MO DAY
92 4 1 92 4 30
 (20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

3077-J

47430

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)			NO. EX. (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW	SAMPLE MEASUREMENT	3000						N/A	2/30	EST
	PERMIT REQUIREMENT		N/A	GPD						
TEMP	SAMPLE MEASUREMENT				68	68	68	0	2/30	GRAB
	PERMIT REQUIREMENT						100			
PH	SAMPLE MEASUREMENT				7.0	7.0	7.0	0	2/30	GRAB
	PERMIT REQUIREMENT				6.0		9.0			
OIL & GREASE	SAMPLE MEASUREMENT				0.6	0.6	0.6	0	2/30	GRAB
	PERMIT REQUIREMENT					10	15			
PHENOLS	SAMPLE MEASUREMENT				0.05	0.055	0.06	0	2/30	GRAB
	PERMIT REQUIREMENT					0.5	0.7			
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER JOHN A. OXFORD PLANT MANAGER TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND, BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>John A. Oxford</i>	TELEPHONE 503-286-3681	DATE		
				92	5	14

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

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7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit (e.g. Enter "CONT" for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.).
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT" (e.g. Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.).

(FOLD HERE FIRST)

10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT," "TELEPHONE NUMBER" and "DATE" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

This report is required by law (33 U.S.C. 1318, 40 C.F.R. 125.27). Failure to report or failure to report truthfully can result in civil penalties not to exceed \$10,000 per day of violation, or in criminal penalties not to exceed \$25,000 per day of violation, or by imprisonment for not more than one year, or by both.

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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME **KOPPERS INDUSTRIES INC**

ADDRESS **7540 NW ST HELENS RD**

PORTLAND OR 97210

FACILITY **NORTHWEST PLANT**

LOCATION **MULTNOMAH COUNTY**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(12-16)

(17-19)

OR-100077-9

PERMIT NUMBER

001

DISCHARGE NUMBER

ENVIRONMENTAL HEALTH & PRODUCT SAFETY

APR 20 1992

Form Approved

OMB No. 2040-0004

Expires 3-31-88

MONITORING PERIOD

FROM

YEAR MO DAY
92 3 1

TO

YEAR MO DAY
92 3 31

3077-J

47430

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
FLOW	SAMPLE MEASUREMENT	2903							N/A	2/31	EST
	PERMIT REQUIREMENT		NA	GPD							
TEMP	SAMPLE MEASUREMENT				52	52.5	53		0	2/31	GRAB
	PERMIT REQUIREMENT										
PH	SAMPLE MEASUREMENT				6.4	6.5	6.6		0	2/31	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASE	SAMPLE MEASUREMENT				0.7	0.75	0.8		0	2/31	GRAB
	PERMIT REQUIREMENT					10	15	MG/L			
PHENOLS	SAMPLE MEASUREMENT				0.17	0.19	0.21		0	2/31	GRAB
	PERMIT REQUIREMENT					0.5	0.7	MG/L (PPM)			
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

JOHN A OXFORD
PLANT MANAGER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503 286-3681 92 4 14
AREA CODE NUMBER YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER" and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
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14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

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FOLD HERE THIRD

STAPLE HERE

Revocable until
NOV 01 2005 04:51:00
6818 E 10th St

SPR 09 09A

DISCHARGE NUMBER
100

PERMIT NUMBER
100

DATE
03-09-09

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

KOPPERS INDUSTRIES INC
7540 NW ST HELENS RD
PORTLAND OR 97210

FACILITY NORTHWEST PLANT
LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-18)

OR-100077-9
PERMIT NUMBER

DISCHARGE NUMBER

OCCUPATIONAL HEALTH
& PRODUCT SAFETY

Form Approved
OMB No. 2040-0004
Expires 3-31-88

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
91 2 1 92 2 29
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

MAR 19 1992
3077-5

4-1-88 Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)			NO. EX- (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW	SAMPLE MEASUREMENT	NO FLOW			NO FLOW					
	PERMIT REQUIREMENT									
TEMP	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
PH	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
OIL & GREASE	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
PHENOLS	SAMPLE MEASUREMENT				NO FLOW HSH					
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

JOHN A OXFORD
PLANT MANAGER

TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503 286-3681 92 03 16
AREA CODE NUMBER YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

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2. Enter "PERMITTEE NAME/MAILING ADDRESS" (and facility name/location, if different), "PERMIT NUMBER" and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
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(FOLD HERE FIRST)

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LEGAL NOTICE

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(FOLD HERE SECOND)

STAMP PLACE

COPIES OF THIS REPORT MUST BE SUBMITTED TO THE FOLLOWING OFFICES:

1. STATE DEPARTMENT OF ENVIRONMENTAL AFFAIRS

2. LOCAL HEALTH DEPARTMENT

3. FEDERAL BUREAU OF INVESTIGATION

4. U.S. ENVIRONMENTAL PROTECTION AGENCY

5. U.S. DEPARTMENT OF JUSTICE

6. U.S. DEPARTMENT OF AGRICULTURE

7. U.S. DEPARTMENT OF COMMERCE

8. U.S. DEPARTMENT OF DEFENSE

9. U.S. DEPARTMENT OF EDUCATION

10. U.S. DEPARTMENT OF ENERGY

11. U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES

12. U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

13. U.S. DEPARTMENT OF INTERIOR

14. U.S. DEPARTMENT OF LABOR

15. U.S. DEPARTMENT OF TRANSPORTATION

16. U.S. DEPARTMENT OF THE ARMY

17. U.S. DEPARTMENT OF THE NAVY

18. U.S. DEPARTMENT OF THE AIR FORCE

19. U.S. DEPARTMENT OF THE MARINE CORPS

20. U.S. DEPARTMENT OF THE COAST GUARD

21. U.S. DEPARTMENT OF THE ARMY CORPS OF ENGINEERS

22. U.S. DEPARTMENT OF THE NAVY ENGINEERING CENTER

23. U.S. DEPARTMENT OF THE AIR FORCE ENGINEERING CENTER

24. U.S. DEPARTMENT OF THE MARINE CORPS ENGINEERING CENTER

25. U.S. DEPARTMENT OF THE COAST GUARD ENGINEERING CENTER

26. U.S. DEPARTMENT OF THE ARMY CORPS OF ENGINEERS, WASH. DC

27. U.S. DEPARTMENT OF THE NAVY ENGINEERING CENTER, WASH. DC

28. U.S. DEPARTMENT OF THE AIR FORCE ENGINEERING CENTER, WASH. DC

29. U.S. DEPARTMENT OF THE MARINE CORPS ENGINEERING CENTER, WASH. DC

30. U.S. DEPARTMENT OF THE COAST GUARD ENGINEERING CENTER, WASH. DC

31. U.S. DEPARTMENT OF THE ARMY CORPS OF ENGINEERS, WASH. DC

32. U.S. DEPARTMENT OF THE NAVY ENGINEERING CENTER, WASH. DC

33. U.S. DEPARTMENT OF THE AIR FORCE ENGINEERING CENTER, WASH. DC

34. U.S. DEPARTMENT OF THE MARINE CORPS ENGINEERING CENTER, WASH. DC

35. U.S. DEPARTMENT OF THE COAST GUARD ENGINEERING CENTER, WASH. DC

36. U.S. DEPARTMENT OF THE ARMY CORPS OF ENGINEERS, WASH. DC

37. U.S. DEPARTMENT OF THE NAVY ENGINEERING CENTER, WASH. DC

38. U.S. DEPARTMENT OF THE AIR FORCE ENGINEERING CENTER, WASH. DC

39. U.S. DEPARTMENT OF THE MARINE CORPS ENGINEERING CENTER, WASH. DC

40. U.S. DEPARTMENT OF THE COAST GUARD ENGINEERING CENTER, WASH. DC

PERMITTEE/NAME/ADDRESS (Include
Facility Name/Location if different)

NAME **KOPPERS INDUSTRIES INC**

ADDRESS **7540 NW ST HELENS RD**

PORTLAND OR 97210

FACILITY **NORTHWEST PLANT**

LOCATION **MULTNOMAH COUNTY**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OR-100077-9

PERMIT NUMBER

01

DISCHARGE NUMBER

OCCUPATIONAL HEALTH
& PRODUCT SAFETY

FEB 24 1992

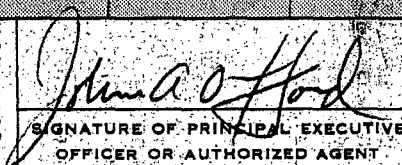
Form Approved
OMB No. 2040-0004
Expires 3-31-88

MONITORING PERIOD											
FROM			TO								
YEAR	MO	DAY	YEAR	MO	DAY						
92	01	01	92	01	31						
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)						

3077-J

47430

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)		
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS					
FLOW	SAMPLE MEASUREMENT	5806							N/A	4/31	EST		
	PERMIT REQUIREMENT		NA	GPD									
TEMP	SAMPLE MEASUREMENT				45	48.25	51			4/31	GRAB		
	PERMIT REQUIREMENT						110	° F					
PH	SAMPLE MEASUREMENT				6.1	6.375	6.6			4/31	GRAB		
	PERMIT REQUIREMENT				6.0		9.0						
OIL & GREASE	SAMPLE MEASUREMENT				0.5	0.65	0.7			4/31	grab		
	PERMIT REQUIREMENT					10	15	MG/L					
PHENOLS	SAMPLE MEASUREMENT				0.14	0.1875	0.22	MG/L		4/31	GRAB		
	PERMIT REQUIREMENT					0.05	0.07	(PPM)					
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)							TELEPHONE			DATE	
JOHN A OXFORD PLANT MANAGER									503 286-3681			92 02 15	
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT							AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER" and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
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(FOLD HERE SECOND)

STAMP
PLACE

OFFICE & MAIL
ADDRESS

STAPLE HERE

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME KOPPERS INDUSTRIES INC
 ADDRESS 7540 NW ST HELENS RD
PORTLAND OR 97210

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)

(2-16)
 OR-100077-2
 PERMIT NUMBER

(17-19)
 DISCHARGE NUMBER

3077-J
 47430

OCCUPATIONAL HEALTH
 & PRODUCT SAFETY

Form Approved
 OMB No. 2040-0004
 Expires 3-31-88

FACILITY NORTHWEST PLANT
 LOCATION MULTNOMATH COUNTY

MONITORING PERIOD						
FROM			TO			
YEAR	MO	DAY	YEAR	MO	DAY	
91	12	1	91	12	31	
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)	

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW	SAMPLE MEASUREMENT	2903							N/	2/31 EST
	PERMIT REQUIREMENT		NA	GPD						
TEMP	SAMPLE MEASUREMENT				46	46	46	0	2/31	GRAB
	PERMIT REQUIREMENT						110			
PH	SAMPLE MEASUREMENT				5.7	5.95	6.2	0	2/31	GRAB
	PERMIT REQUIREMENT				6.0		9.0			
OIL & GREASE	SAMPLE MEASUREMENT				0.6	0.7	0.8	0	2/31	GRAB
	PERMIT REQUIREMENT					10	15			
PHENOLS	SAMPLE MEASUREMENT				0.18	0.2	0.22	0	2/31	GRAB
	PERMIT REQUIREMENT					0.5	0.7			
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
JOHN A. OXFORD
PLANT MANAGER

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
John A. Oxford

TELEPHONE
 503 286-3681
 DATE
 92 01 14

TYPED OR PRINTED
 COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference: all attachments here)

Koppers003554

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER," and "DISCHARGE NUMBER," where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
5. Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE: to municipalities with secondary treatment requirement, enter 30-day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM".)
6. Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit. (e.g., Enter "CONT" for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.)
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT" (e.g., Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.)

(FOLD HERE FIRST)

10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER," with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT," "TELEPHONE NUMBER," and "DATE" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

This report is required by law (33 U.S.C. 1318; 40 C.F.R. 125.27). Failure to report or failure to report truthfully can result in civil penalties not to exceed \$10,000 per day of violation; or in criminal penalties not to exceed \$25,000 per day of violation, or by imprisonment for not more than one year, or by both.

(FOLD HERE SECOND)

KOPPERS INDUSTRIES, INC.
MAILROOM B-1800 B-200
436 SEVENTH AVENUE
PITTSBURGH, PA 15219-1800

STAMP
PLACE
HERE

GEORGE A. MCGEE
GENERAL MANAGER

(FOLD HERE THIRD)

STAPLE HERE

TELEPHONE

LOCATION

DATE RECEIVED
BY
OFFICE
ADDRESS
CITY
STATE
ZIP

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME **KOPPERS INDUSTRIES INC**
ADDRESS **7540 NW ST HELENS RD**
PORTLAND OR 97210

FACILITY **NORTHWEST PLANT**

LOCATION **MULTNOMATH COUNTY**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

OR-100077-9
PERMIT NUMBER

001
DISCHARGE NUMBER

Form Approved
OMB No. 2040-0004
Expires 3-31-88

OCCUPATIONAL HEALTH
& PRODUCT SAFETY

3077-J DEC 16 1991
47430

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (34-45)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	6000							N/A	4/30	EST
	PERMIT REQUIREMENT		N/A	GPD							
TEMP	SAMPLE MEASUREMENT				50	51	52		0	4/30	GRAB
	PERMIT REQUIREMENT						110	°F			
PH	SAMPLE MEASUREMENT				6.2	6.5	6.7		0	4/30	GRAB
	PERMIT REQUIREMENT				6.0		9.0	SU			
OIL & GREASE	SAMPLE MEASUREMENT				0.8	1.425	2.8	MG/L	0	4/30	GRAB
	PERMIT REQUIREMENT					10	15				
PHENOLS	SAMPLE MEASUREMENT				0.0	0.0925	0.19	MG/L	0	4/30	GRAB
	PERMIT REQUIREMENT					0.5	0.7	(PPM)			
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

JOHN A. OXFORD
PLANT MANAGER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT, SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503 286-3681 91 12 12
AREA CODE NUMBER YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

4000-04015, ON BMC
85-13-5 cel/qx3

- DATE: 6-17-61
BY: J. W. 301-1001
7 day during

PERIOD	
YAO	OM
OR	SA

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| penalties not more than | YAC | OM |
| (22.43) | 128.55 | |

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DAY
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1500353

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME **KOPPERS INDUSTRIES INC**
 ADDRESS **7540 NW ST HELENS RD**

FACILITY **NORTHWEST PLANT**
 LOCATION **MULTNOMAH COUNTY**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OR-100077-9
 PERMIT NUMBER

01
 DISCHARGE NUMBER

Portland
 OCCUPATIONAL HEALTH & PRODUCT SAFETY
 NOV 18 1991
 Form Approved OMB No. 2040-0004
 Expires 3-31-88

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
91	10	1	91	10	31
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

3077-J
 47430

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW	SAMPLE MEASUREMENT	2903							N/A	2/31 EST
	PERMIT REQUIREMENT		NA	GPD						
TEMP	SAMPLE MEASUREMENT				58	58.5	59		2/31	GRAB
	PERMIT REQUIREMENT						110			
PH	SAMPLE MEASUREMENT				6.1	6.2	6.3		2/31	GRAB
	PERMIT REQUIREMENT				6.0		9.0			
OIL & GREASE	SAMPLE MEASUREMENT				1.5	1.7	1.9		2/31	GRAB
	PERMIT REQUIREMENT					10	15			
PHENOLS	SAMPLE MEASUREMENT				0.16	0.16	0.16		2/31	GRAB
	PERMIT REQUIREMENT					0.5	0.7			
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

JOHN A. OXFORD
PLANT MANAGER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND, BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503 286-3681 91 11 15
 AREA CODE NUMBER YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER," and "DISCHARGE NUMBER" where indicated: (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
5. Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE: to municipalities with secondary treatment requirement, enter 30 day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM".)
6. Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit. (e.g., Enter "CONT." for continuous monitoring. "1/7" for one day per week. "1/30" for one day per month. "1/90" for one day per quarter, etc.)
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT." (e.g., Enter "GRAB" for individual sample. "24HC" for 24-hour composite. "N/A" for continuous monitoring, etc.)

(FOLD HERE FIRST)

10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT," "TELEPHONE NUMBER" and "DATE" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

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(FOLD HERE SECOND)

STAMP
PLACE
HERE

DISCHARGE
MONITORING
REPORT

(FOLD HERE THIRD)

STAPLE HERE

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME KOPPERS INDUSTRIES INC

ADDRESS 7540 NW ST HELENS RD

FACILITY NORTHWEST PLANT

LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OR-100077-9

PERMIT NUMBER

DISCHARGE NUMBER

OCCUPATIONAL HEALTH & PRODUCT SAFETY

Form Approved

OMB No. 2040-0004

Expires 3-31-88

MONITORING PERIOD

FROM YEAR 91 MO 9 DAY 1 TO YEAR 91 MO 9 DAY 30
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

06721 1991

47430

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) (54-61)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM					
FLOW	SAMPLE MEASUREMENT	3000								N/A	2/30	EST
	PERMIT REQUIREMENT		N/A	GPD								
TEMP	SAMPLE MEASUREMENT				78	78	78	O/F	0	2/30	GRAB	
	PERMIT REQUIREMENT						110					
PH	SAMPLE MEASUREMENT				6.1	6.25	6.4		0	2/30	GRAB	
	PERMIT REQUIREMENT				6.0		9.0	SU				
OIL & GREASE	SAMPLE MEASUREMENT				0.5	0.5	0.5	MG/L	0	2/30	GRAB	
	PERMIT REQUIREMENT											
PHENOLS	SAMPLE MEASUREMENT				0.12	0.13	0.14	MG/L	0	2/30	GRAB	
	PERMIT REQUIREMENT					0.5	0.7	(PPM)				
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE, FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE	DATE			
JOHN A OXFORD PLANT MANAGER		503 286-3681	91	10	17	
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
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(FOLD HERE FIRST)

10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
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HERE

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME KOPPERS INDUSTRIES INC

ADDRESS 7540 NW ST HELENS RD
PORTLAND OR 97210

FACILITY NORTHWEST PLANT

LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

OR 100077-9
PERMIT NUMBER

DISCHARGE NUMBER

OCCUPATIONAL HEALTH
& PRODUCT SAFETY

Form Approved
OMB No. 2040-0004
Expires 3-31-88

SEP 16 1991

3077-J

47430

NOTE: Read instructions before completing this form.

MONITORING PERIOD					
FROM			TO		
YEAR	MO	DAY	YEAR	MO	DAY
91	8	1	91	8	31
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (46-53)			NO. EX. (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW	SAMPLE MEASUREMENT	NO FLOW								
	PERMIT REQUIREMENT									
TEMP	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
PH	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
OIL & GREASE	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
PHENOLS	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)		TELEPHONE		DATE		
JOHN A OXFORD PLANT MANAGER				503 286-3681		91 9 11		
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER," and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
5. Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE: to municipalities with secondary treatment requirement, enter 30-day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM".)
6. Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit. (e.g. Enter "CONT" for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.)
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT" (e.g. Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.)

(FOLD HERE FIRST)

10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT," "TELEPHONE NUMBER" and "DATE" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

This report is required by law (33 U.S.C. 1318, 40 C.F.R. 125.27). Failure to report or failure to report truthfully can result in civil penalties not to exceed \$10,000 per day of violation; or in criminal penalties not to exceed \$25,000 per day of violation, or by imprisonment not more than one year, or by both.

(FOLD HERE SECOND)

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SEALED & SIGNED

DATE

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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME KOPPERS INDUSTRIES INC
ADDRESS 7540 NW ST HELENS RD
PORTLAND OR 97210

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OR-100077-9
PERMIT NUMBER

DISCHARGE NUMBER

3077-J

OCCUPATIONAL HEALTH
& PRODUCT SAFETY

Form Approved
OMB No. 2040-0004
EPA 3-31-88

AUG 16 1991

FACILITY N W PLANT
LOCATION MULTNOMAH COUNTY

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	91	7	1		91	8	1
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW	SAMPLE MEASUREMENT	NO FLOW								
	PERMIT REQUIREMENT									
TEMP	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
PH	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
OIL & GREASE	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
PHENOLS	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

JOHN A OXFORD
PLANT MANAGER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503 286-3681 91 8 13

AREA CODE NUMBER YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

FORM NO. 3350-1 (Rev. 1-78) PREVIOUS EDITIONS TO BE USED

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER," and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
5. Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE: to municipalities with secondary treatment requirement, enter 30-day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM.")
6. Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit. (e.g., Enter "CONT" for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.)
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT" (e.g., Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.)
10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN REFERENCE EACH VIOLATION BY DATE.
11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT," "TELEPHONE NUMBER" and "DATE" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

This report is required by law (33 U.S.C. 1318; 40 C.F.R. 125.27). Failure to report or failure to report truthfully can result in penalties not to exceed \$10,000 per day of violation; or in criminal penalties not to exceed \$25,000 per day of violation, or by imprisonment for not more than one year, or by both.

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DATE
TIME

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER

PHONE NO.

DATE & SIGNATURE

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DISCHARGE NUMBER	
YARD	OM
RAVEY	RAVEY
YARD	OM
RAVEY	RAVEY

2-11-10001-50	
YARD	OM
RAVEY	RAVEY
YARD	OM
RAVEY	RAVEY

DISCHARGE NUMBER	
YARD	OM
RAVEY	RAVEY
YARD	OM
RAVEY	RAVEY

2-11-10001-50	
YARD	OM
RAVEY	RAVEY
YARD	OM
RAVEY	RAVEY

FORM NO. 3350-1 (Rev. 1-78) PREVIOUS EDITIONS TO BE USED

DISCHARGE MONITORING REPORT (DMR) FORM

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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME **KOPPERS INDUSTRIES INC**
 ADDRESS **7540 NW ST HELENS RD**
PORTLAND OR 97210

FACILITY **N.W. PLANT**
 LOCATION **MULTNOMAH COUNTY**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)

OR-100077-9
 PERMIT NUMBER

DISCHARGE NUMBER


OCCUPATIONAL HEALTH
 & PRODUCT SAFETY

Form Approved
 OMB No. 2040-0004
 Expires 3-31-88

JUL 15 1991

3077-J
 47430

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) (46-53)			(4 Card Only) (38-45)				(4 Card Only) (46-53)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS							
FLOW	SAMPLE MEASUREMENT	6000										N/A	4/30	EST	
	PERMIT REQUIREMENT		N/A	GPD											
TEMP	SAMPLE MEASUREMENT				58	59.28	61	°F	6	4/30	GRAB				
	PERMIT REQUIREMENT						110								
PH	SAMPLE MEASUREMENT				6.1	6.475	6.8		0	4/30	GRAB				
	PERMIT REQUIREMENT				6.0		9.0	SU							
OIL & GREASE	SAMPLE MEASUREMENT				0.7	1.0	1.2	MG/L	0	4/30	GRAB				
	PERMIT REQUIREMENT					10	15								
PHENOLS	SAMPLE MEASUREMENT				0.14	0.2475	0.44	MG/L	0	4/30	GRAB				
	PERMIT REQUIREMENT					0.5	0.7	(PPM)							
	SAMPLE MEASUREMENT														
	PERMIT REQUIREMENT														
	SAMPLE MEASUREMENT														
	PERMIT REQUIREMENT														
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)										TELEPHONE		DATE	
JOHN A OXFORD PLANT MANAGER		 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT										503 286-3681		91 7 11	
TYPED OR PRINTED												AREA CODE		NUMBER	

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

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(FOLD HERE FIRST)

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DISCHARGE MONITORING PERIOD			
DATE	TIME	DATE	TIME

DISCHARGE MONITORING PERIOD			
DATE	TIME	DATE	TIME

DISCHARGE MONITORING PERIOD			
DATE	TIME	DATE	TIME

DISCHARGE MONITORING PERIOD			
DATE	TIME	DATE	TIME

DISCHARGE MONITORING PERIOD			
DATE	TIME	DATE	TIME

DISCHARGE MONITORING PERIOD			
DATE	TIME	DATE	TIME

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME **KOPPERS INDUSTRIES INC**
 ADDRESS **7540 NW ST HELENS RD**
PORTLAND OR 97210

FACILITY **N W PLANT**
 LOCATION **MULTNOMAH COUNTY**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

OR **100077-9**
 PERMIT NUMBER

DISCHARGE NUMBER

OCCUPATIONAL HEALTH
 & PRODUCT SAFETY

Form Approved
 OMB No. 2040-0004
 Expires 3-31-88

3077-47430 **MAY 28 1991**

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	91	4	1		91	5	1
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
FLOW	SAMPLE MEASUREMENT	6000							N/	4/	
	PERMIT REQUIREMENT									30	EST
TEMP	SAMPLE MEASUREMENT		NA	CPD	52	54.25	56		0	4/	GRAB
	PERMIT REQUIREMENT							F		30	
PH	SAMPLE MEASUREMENT				6.3	6.475	6.7		0	4/	GRAB
	PERMIT REQUIREMENT				6.0		9.0	SU		30	
OIL & GREASE	SAMPLE MEASUREMENT				0.4	0.625	0.8	MG	0	4/	GRAB
	PERMIT REQUIREMENT					10	15	L		30	
PHENOLS	SAMPLE MEASUREMENT				0.15	0.1825	0.22	MG	0	4/	GRAB
	PERMIT REQUIREMENT									30	
	SAMPLE MEASUREMENT					0.5	0.7				
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY, UNDER PENALTY OF LAW, THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE		DATE		
JOHN A. OXFORD PLANT MANAGER		503	286-3681	91	5	22
TYPED OR PRINTED						

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER," and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME **KOPPERS INDUSTRIES INC**
 ADDRESS **7549 NW ST HELENS RD**
PORTLAND OR 97210

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
 (2-16) (17-19)

OR-100077-9
 PERMIT NUMBER

DISCHARGE NUMBER

OCCUPATIONAL HEALTH
 & PRODUCT SAFETY

Form Approved
 OMB No. 2040-0004
 Expires 3-31-88

FACILITY **N W PLANT**
 LOCATION **MULTNOMAH COUNTY**

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
91	3	1		91	4	1
(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

3077-J
 47430
 APR 19 1991

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) (54-61)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW	SAMPLE MEASUREMENT	2904							2 31	EST
	PERMIT REQUIREMENT		NA	GPD						
TEMP	SAMPLE MEASUREMENT				50 MAX	50.5	51	0	2 31	GRAB
	PERMIT REQUIREMENT						110	F		
PH	SAMPLE MEASUREMENT				6.1	6.2	6.3	0	2 31	GRAB
	PERMIT REQUIREMENT				6.0		9.0	SU		
OIL & GREASE	SAMPLE MEASUREMENT				0.5	1.7	2.9	MG	2 31	GRAB
	PERMIT REQUIREMENT					10	15	L		
PHENOLS	SAMPLE MEASUREMENT				0.08	0.08	0.08	MG L	2 31	GRAB
	PERMIT REQUIREMENT					0.5	0.7	(PPM)		
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT, SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE		DATE		
JOHN A. OXFORD PLANT MANAGER			503 286-3681		91	4	15
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Koppers003570

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER," and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
5. Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE: to municipalities with secondary treatment requirement, enter 30-day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM".)
6. Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit. (e.g., Enter "CONT." for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.)
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT" (e.g., Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.)

(FOLD HERE FIRST)

10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN; REFERENCE EACH VIOLATION BY DATE.
11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT," "TELEPHONE NUMBER" and "DATE" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

This report is required by law (33 U.S.C. 1318; 40 C.F.R. 125.27). Failure to report or failure to report truthfully can result in civil penalties not to exceed \$10,000 per day of violation; or in criminal penalties not to exceed \$25,000 per day of violation, or by imprisonment for not more than one year, or by both.

(FOLD HERE SECOND)

STAMP
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DATE
BY
SIGNATURE
OF
PRINCIPAL
EXECUTIVE
OFFICER
OR
AUTHORIZED
AGENT

STAMP
PLACE
HERE

(FOLD HERE THIRD)

STAPLE HERE

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME **KOPPERS INDUSTRIES INC**
 ADDRESS **7540 NW ST HELENS RD**
PORTLAND OR 97210

FACILITY **NW PLANT**

LOCATION **MULTNOMAH COUNTY**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OR-100077-9
 PERMIT NUMBER

DISCHARGE NUMBER

Form Approved
 OMB No. 2040-0004
 Expires 3-31-88

OCCUPATIONAL HEALTH
 & PRODUCT SAFETY

3077-J
 47430

MAR 18 1991

MONITORING PERIOD

FROM YEAR 91 MO 2 DAY 1 TO YEAR 91 MO 3 DAY 1
 (20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
FLOW	SAMPLE MEASUREMENT	6429							N/A	4/28	EST
	PERMIT REQUIREMENT		N/A	GPD							
TEMP	SAMPLE MEASUREMENT				52	53.5	54	O	0	4/28	GRAB
	PERMIT REQUIREMENT						110	F			
PH	SAMPLE MEASUREMENT				6.2	6.4	6.8		0	4/28	GRAB
	PERMIT REQUIREMENT				6.0		9.0	SU			
OIL & GREASE	SAMPLE MEASUREMENT				ND	0.825	1.7	MG/L	0	4/28	GRAB
	PERMIT REQUIREMENT					10	15				
PHENOLS	SAMPLE MEASUREMENT				0.11	0.1575	0.19	MG/L	0	4/28	GRAB
	PERMIT REQUIREMENT					0.5	0.7	(PPM)			
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

JOHN A OXFORD
 PLANT MANAGER

TYPED OR PRINTED

CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001, AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503
 AREA CODE

286-3681
 NUMBER

91
 YEAR

3
 MO

14
 DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

bsv1q54 mic3
A000-0705 .c4 ENO
28-73-2 eniqx3

- 7-day

STANDARD

- PREMIUM BRANDS

SECRET

OM	FLAY	13-051	13-051
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1. *Chlorophyll a* (Chl a) is the primary photosynthetic pigment in most plants and algae. It is a green pigment that absorbs light energy in the blue and red regions of the visible spectrum.

2. *Chlorophyll b* (Chl b) is an accessory pigment found in green plants and green algae. It absorbs light energy in the blue and orange-red regions of the visible spectrum.

3. *Carotenoids* are a group of pigments that include carotenes and xanthophylls. They absorb light energy in the blue and green regions of the visible spectrum.

4. *Xanthophylls* are a group of pigments that include lutein, zeaxanthin, and antheraxanthin. They absorb light energy in the blue and green regions of the visible spectrum.

5. *Lutein* is a xanthophyll pigment that is found in green plants and green algae. It absorbs light energy in the blue and green regions of the visible spectrum.

6. *Zeaxanthin* is a xanthophyll pigment that is found in green plants and green algae. It absorbs light energy in the blue and green regions of the visible spectrum.

7. *Antheraxanthin* is a xanthophyll pigment that is found in green plants and green algae. It absorbs light energy in the blue and green regions of the visible spectrum.

8. *Anthocyanins* are a group of pigments that include cyanidin, delphinidin, and pelargonidin. They absorb light energy in the blue and green regions of the visible spectrum.

9. *Cyanidin* is an anthocyanin pigment that is found in green plants and green algae. It absorbs light energy in the blue and green regions of the visible spectrum.

10. *Delphinidin* is an anthocyanin pigment that is found in green plants and green algae. It absorbs light energy in the blue and green regions of the visible spectrum.

11. *Pelargonidin* is an anthocyanin pigment that is found in green plants and green algae. It absorbs light energy in the blue and green regions of the visible spectrum.

12. *Flavonoids* are a group of pigments that include flavones, flavonols, and flavanols. They absorb light energy in the blue and green regions of the visible spectrum.

13. *Flavones* are a group of pigments that include chrysin, apigenin, and luteolin. They absorb light energy in the blue and green regions of the visible spectrum.

14. *Flavonols* are a group of pigments that include quercetin, kaempferol, and myricetin. They absorb light energy in the blue and green regions of the visible spectrum.

15. *Flavanols* are a group of pigments that include catechins, flavan-3-ols, and proanthocyanidins. They absorb light energy in the blue and green regions of the visible spectrum.

[illegible]

Koppers003573

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME KOPPERS INDUSTRIES INC
 ADDRESS 7540 NW ST HELENS RD
PORTLAND OR 97210

FACILITY N W PLANT
 LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

OR 100077-9
 PERMIT NUMBER

DISCHARGE NUMBER

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
 00 13 01 01 29 31
 (20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

3077-J FEB 11 1991
 47430

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
FLOW	SAMPLE MEASUREMENT	5806							N/A	4/31	EST
	PERMIT REQUIREMENT		N/A	GPD							
TEMP	SAMPLE MEASUREMENT				38	40	42		0	4/31	GRAB
	PERMIT REQUIREMENT						110	OF			
PH	SAMPLE MEASUREMENT				6.2	6.525	6.8		0	4/31	GRAB
	PERMIT REQUIREMENT				6.0		9.0	SI			
OIL & GREASE	SAMPLE MEASUREMENT				0.5	0.7	0.8	MG/L	0	4/31	GRAB
	PERMIT REQUIREMENT					10	15				
PHENOLS	SAMPLE MEASUREMENT				0.18	0.2025 XOX4274	0.22	MG/L	0	4/31	GRAB
	PERMIT REQUIREMENT					0.5	0.7 (PPM)				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER JOHN A OXFORD PLANT MANAGER TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <i>John A Oxford</i>	TELEPHONE 503 286-3681	DATE				
				AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER," and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
5. Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE: to municipalities with secondary treatment requirement, enter 30-day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM".)
6. Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit (e.g., Enter "CONT" for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.)
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT" (e.g., Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.)

(FOLD HERE FIRST)

10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT," "TELEPHONE NUMBER" and "DATE" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

This report is required by law (33 U.S.C. 1318; 40 C.F.R. 125.27). Failure to report or failure to report truthfully can result in civil penalties not to exceed \$10,000 per day of violation; or in criminal penalties not to exceed \$25,000 per day of violation, or by imprisonment for not more than one year, or by both.

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PLACE

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PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)

NAME KOPPERS INDUSTRIES INC
ADDRESS 7540 NW ST HELENS RD
PORTLAND OR 97210

FACILITY N W PLANT
LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OR 100077-9
PERMIT NUMBER

DISCHARGE NUMBER

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	90	11	1		90	12	1
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

3077-J
47430

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	<div></div>	(3 Card Only) QUANTITY OR LOADING (46-53) (54-61)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
FLOW	SAMPLE MEASUREMENT	3000		GPD					N/A	2/30	EST
	PERMIT REQUIREMENT		N/A								
TEMP	SAMPLE MEASUREMENT				44	44	44	OF	0	2/30	GRAB
	PERMIT REQUIREMENT						110				
PH	SAMPLE MEASUREMENT				6.6	6.7	6.8		0	2/30	GRAB
	PERMIT REQUIREMENT				6.0		9.0		SU		
OIL & GREASE	SAMPLE MEASUREMENT				0.4	0.55	0.7	MG/L	0	2/30	GRAB
	PERMIT REQUIREMENT					10	15				
PHENOLS	SAMPLE MEASUREMENT				0.14	0.15	0.16	MG/L	0	2/30	GRAB
	PERMIT REQUIREMENT					0.5	0.7		(PPM)		
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

JOHN A OXFORD
PLANT MGR

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503
AREA
CODE

286 3681
NUMBER

90
YEAR

12
MO

15
DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER" and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
5. Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE: to municipalities with secondary treatment requirement, enter 30-day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM".)
6. Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or day average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit. (e.g., Enter "CONT." for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.)
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT" (e.g., Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.)

(FOLD HERE FIRST)

10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT," "TELEPHONE NUMBER" and "DATE" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

This report is required by law (33 U.S.C. 1318; 40 C.F.R. 125.27). Failure to report or failure to report truthfully can result in civil penalties not to exceed \$10,000 per day of violation; or in criminal penalties not to exceed \$25,000 per day of violation, or by imprisonment for not more than one year, or by both.

(FOLD HERE SECOND)

HERE
STAMP
PLACE

(FOLD HERE THIRD)

STAPLE HERE

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME KOPPERS INDUSTRIES INC

ADDRESS 7540 N.W. ST HELENS ROAD

PORTLAND OR 97219

FACILITY PLANT

LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

OR100077-9

001

PERMIT NUMBER

DISCHARGE NUMBER

MONITORING PERIOD

FROM YEAR 90 MO 10 DAY 1 TO YEAR 90 MO 11 DAY 1
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

Form Approved
EPA Form 3320-1 (Rev. 10-79)
OCCUPATIONAL HEALTH & PRODUCT SAFETY

30775

47400

NOV 28 1990

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	<div></div>	(3 Card Only) (46-53)			QUALITY OR CONCENTRATION (46-53)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMP	SAMPLE MEASUREMENT	3000		GPD					N/A	30/30	EST
	PERMIT REQUIREMENT		N/A								
P.H.	SAMPLE MEASUREMENT				55	59	62		0	4/30	GRAB
	PERMIT REQUIREMENT						100°	° F			
OIL & GREASE	SAMPLE MEASUREMENT				6.1	6.43	6.9		0	4/30	GRAB
	PERMIT REQUIREMENT				6.0		9.0	S.U.			
PHENOLS	SAMPLE MEASUREMENT				0.3	0.48	0.8	MG/L	0	4/30	GRAB
	PERMIT REQUIREMENT					10	15				
	SAMPLE MEASUREMENT				.05	.04	.11	MG/L	0	4/30	GRAB
	PERMIT REQUIREMENT					0.5	0.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

JOHN A. OXFORD

PLANT MANAGER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503 286-3681

90 11 21

AREA CODE

NUMBER

YEAR

MO

DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER" and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
5. Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE: to municipalities with secondary treatment requirement, enter 30-day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM".)
6. Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit. (e.g., Enter "CONT" for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.)
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT" (e.g., Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.)

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10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT," "TELEPHONE NUMBER" and "DATE" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

This report is required by law (33 U.S.C. 1318; 40 C.F.R. 125.27). Failure to report or failure to report truthfully can result in civil penalties not to exceed \$10,000 per day of violation; or in criminal penalties not to exceed \$25,000 per day of violation, or by imprisonment for not more than one year, or by both.

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PLACE
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PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)

NAME KOPPERS INDUSTRIES INC

ADDRESS 7540 NW ST HELENS RD
222 PORTLAND OR 97210

FACILITY N.W. PLANT

LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OR-100077-9

PERMIT NUMBER

DISCHARGE NUMBER

MONITORING PERIOD

FROM YEAR 90 MO 9 DAY 1 TO YEAR 90 MO 10 DAY 1
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

OCCUPATIONAL HEALTH
& PRODUCT SAFETY

Form Approved
OMB No. 2040-0004
Approval expires 9-30-85

3077-J OCT 15 1990
47430

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			(4 Card Only) QUALITY OR CONCENTRATION (46-53)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS					
FLOW	SAMPLE MEASUREMENT	NO FLOW											
	PERMIT REQUIREMENT												
TEMP	SAMPLE MEASUREMENT				NO FLOW								
	PERMIT REQUIREMENT												
P H.	SAMPLE MEASUREMENT				NO FLOW								
	PERMIT REQUIREMENT												
OIL & GREASE	SAMPLE MEASUREMENT				NO FLOW								
	PERMIT REQUIREMENT												
PHENOLS	SAMPLE MEASUREMENT				NO FLOW								
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE	DATE		
JOHN A OXFORD PLANT MANAGER					
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	503 286-3681	90	10	12
		AREA CODE	NUMBER	YEAR	MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER," and "DISCHARGE" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
5. Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE to municipalities with secondary treatment requirement, enter 30-day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM.")
6. Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
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13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

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PLACE

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PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)

NAME KOPPERS INDUSTRIES INC

ADDRESS 7540 NW ST HELENS RD

PORTLAND OR 97210

FACILITY N W PLANT

LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

02-100077-9

PERMIT NUMBER

DISCHARGE NUMBER

OCCUPATIONAL HEALTH
& PRODUCT SAFETY

Form Approved
OMB No. 2040-0004
Approval expires 9-30-85

SEP 17 1990

3077-J

47430

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW	SAMPLE MEASUREMENT	NO FLOW								
	PERMIT REQUIREMENT									
TEMP	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
P.H.	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
OIL & GREASE	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
PHENOLS	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000, and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE		DATE		
JOHN A OXFORD PLANT MANAGER		503 286-3681	90	9	13	
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS" (and facility name/location, if different), "PERMIT NUMBER" and "DISCHARGE MONITORING PERIOD" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
5. Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE to municipalities with secondary treatment requirement, enter 30-day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM".)
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8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit. (e.g., Enter "CONT." for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.)
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT" (e.g., Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.)

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11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER" OR AUTHORIZED AGENT, "TELEPHONE NUMBER" and "DATE" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

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PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved.
OMB No. 2040-0004
Approval expires 9-30-85

NAME KOPPERS INDUSTRIES INC
ADDRESS 7540 NW ST HELENS RD
PORTLAND OR 97210

OR-100077-9
PERMIT NUMBER

DISCHARGE NUMBER

OCCUPATIONAL HEALTH
& PRODUCT SAFETY

FACILITY M.W. PLANT
LOCATION MULTNOMAH COUNTY

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	90	7	-1		90	8	1
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

30773
47430
AUG 14 1990

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW	SAMPLE MEASUREMENT	NO FLOW								
	PERMIT REQUIREMENT									
TEMP	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
P.H.	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
OIL & GREASE	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
PHENOLS	SAMPLE MEASUREMENT				NO FLOW					
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

JOHN A OXFORD
PLANT MANAGER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503
AREA
CODE

286-3681
NUMBER

90
YEAR

8
MO

10
DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter **PERMITTEE NAME/MAILING ADDRESS** (and facility name/location, if different), **PERMIT NUMBER**, and **"DISCHARGE NUMBER"** where indicated. (A separate form is required for each discharge.)
3. Enter days beginning and ending **"MONITORING PERIOD"** covered by form where indicated.
4. Enter each **"PARAMETER"** as specified in monitoring requirements of permit.
5. Enter **"SAMPLE MEASUREMENT"** data for each parameter under **"QUANTITY"** and **"QUALITY"** in units specified in permit. **"AVERAGE"** is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during **"MONITORING PERIOD."** **"MAXIMUM"** and **"MINIMUM"** are normally extreme high and low measurements obtained during **"MONITORING PERIOD."** (NOTE to municipalities with secondary treatment requirement, enter 30-day average of sample measurements under **"AVERAGE"** and enter maximum 7-day average of sample measurements obtained during monitoring period under **"MAXIMUM"**.)
6. Enter **"PERMIT REQUIREMENT"** for each parameter under **"QUANTITY"** and **"QUALITY"** as specified in permit.
7. Under **"NO. EX"** enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter **"FREQUENCY OF ANALYSIS"** both as **"SAMPLE MEASUREMENT"** (actual frequency of sampling and analysis used during monitoring period) and as **"PERMIT REQUIREMENT"** specified in permit. (e.g., Enter **"CONT."** for continuous monitoring, **"1/7"** for one day per week, **"1/30"** for one day per month, **"1/90"** for one day per quarter, etc.)
9. Enter **"SAMPLE TYPE"** both as **"SAMPLE MEASUREMENT"** (actual sample type used during monitoring period) and as **"PERMIT REQUIREMENT"** (e.g., Enter **"GRAB"** for individual sample, **"24-HC"** for 24-hour composite, **"N/A"** for continuous monitoring, etc.)

(FOLD HERE FIRST)

10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.

1. If "no discharge" occurs during monitoring period, enter **"NO DISCHARGE"** across form in place of data entry.
2. Enter **NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER** with **SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER, OR AUTHORIZED AGENT**, **TELEPHONE NUMBER** and **DATE** at bottom of form.
3. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
4. More detailed instructions for use of this **DISCHARGE MONITORING REPORT (DMR)** form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

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(FOLD HERE SECOND)

PLACE
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HERE

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FOLD HERE THIRD

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME KOPPERS INDUSTRIES INC

ADDRESS 7540 NW ST HELENS RD

PORTLAND OR 97210

FACILITY N.W. PLANT

LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)
OR-100077-9

PERMIT NUMBER

(17-19)

DISCHARGE NUMBER

Form Approved
OMB No. 2040-0004
Approval expires 9-30-85

OCCUPATIONAL HEALTH
& PRODUCT SAFETY

3077-J

47430

JUL 16 1990

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	90	7	1		90	7	1
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			(54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS					
FLOW	SAMPLE MEASUREMENT	3000								N/A	2/30	EST	
	PERMIT REQUIREMENT			GPD									
TEMP	SAMPLE MEASUREMENT				69	69	69	° F	0	2/30	GRAB		
	PERMIT REQUIREMENT												
PH	SAMPLE MEASUREMENT				6.4	6.50	6.6		0	2/30	GRAB		
	PERMIT REQUIREMENT				6.0		9.0	SU					
OIL & GREASE	SAMPLE MEASUREMENT				0.4	0.4	0.4	MG/L	0	2/30	GRAB		
	PERMIT REQUIREMENT				0.3		0.9						
PHENOLS	SAMPLE MEASUREMENT				0.14	0.1550	0.17	MG/L	0	2/30	GRAB		
	PERMIT REQUIREMENT					0.5	0.7	(PPM)					
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
NAME/TITLE: PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)					TELEPHONE		DATE				
JOHN A OXFORD PLANT MANAGER							503 286-3681		90	7	12		
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					AREA CODE	NUMBER	YEAR	MO	DAY		

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

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2. Enter "PERMITTEE NAME/MAILING ADDRESS" (and facility name/location, if different), "PERMIT NUMBER", and "DISCHARGE DATE" where indicated. (A separate form is required for each discharge.)
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4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
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PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)

NAME KOPPERS INDUSTRIES INC

ADDRESS 7540 NW ST HELENS RD

PORTLAND OR 97210

FACILITY N W PLANT

LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)

OR-100077-9

PERMIT NUMBER

(17-19)

DISCHARGE NUMBER

MONITORING PERIOD

FROM

YEAR MO DAY
90 5 1
(20-21) (22-23) (24-25)

TO

YEAR MO DAY
90 6 1
(26-27) (28-29) (30-31)

3077-J
47430

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)			
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS		
FLOW	SAMPLE MEASUREMENT	5806							N/A	4/31	EST		
	PERMIT REQUIREMENT			GPD									
TEMP	SAMPLE MEASUREMENT				60	60.5	61	°F	0	4/31	GRAB		
	PERMIT REQUIREMENT												
PH	SAMPLE MEASUREMENT				6.7	6.75	6.8		0	4/31	GRAB		
	PERMIT REQUIREMENT				6.0		9.0	SU					
OIL & GREASE	SAMPLE MEASUREMENT				0.3	0.65	0.9	MG/L	0	4/31	GRAB		
	PERMIT REQUIREMENT					10	15						
PHENOLS	SAMPLE MEASUREMENT				0.16	0.2025	0.25	MG/L	0	4/31	GRAB		
	PERMIT REQUIREMENT					0.5	0.7	(PPM)					
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT, SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)				TELEPHONE		DATE					
JOHN A OXFORD PLANT MGR MANAGER						503 286-3681		90	6	12			
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				AREA CODE		NUMBER			YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS" (and facility name/location, if different), "PERMIT NUMBER", and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
5. Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE to municipalities with secondary treatment requirement: enter 30-day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM.")
6. Enter "PERMIT REQUIREMENT" for each parameter in "PERMIT REQUIREMENT" column.
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum) day average as appropriate permit requirement for each parameter. (One, etc., 9)
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit. (e.g., Enter "CONT." for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.)
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT" (e.g., Enter "GRAB" for individual sample, "2-H" for 24-hour composite, "N/A" for continuous monitoring, etc.)

(FOLD HERE FIRST)

10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION OF EACH DISCHARGE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT," "TELEPHONE NUMBER" and "DATE" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

This report is required by law (33 U.S.C. 1318; 40 C.F.R. 125.27). Failure to report or failure to report truthfully can result in civil penalties not to exceed \$10,000 per day of violation; or in criminal penalties not to exceed \$25,000 per day of violation, or by imprisonment for not more than one year, or by both.

(FOLD HERE SECOND)

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HERE

(FOLD HERE THIRD)

STAPLE HERE

DEQ Case Number: _____

DEPARTMENT OF ENVIRONMENTAL QUALITY

SPLIT SAMPLE RESULTS REPORT

OCCUPATIONAL
& PRODUCT

MAY 18 1990

Source Name: KOPPERS OUTFALL Sample Date: 4-26-90
 Contact Person: JOHN A OXFORD Phone: 286-3681
 Address: 7540 N.W. ST HELENS RD
 Collected By: WIXOM & OXFORD Region/Division: N.W.

	FIELD MEASUREMENTS*			SOURCE SAMPLE RESULTS			DEQ LAB RESULTS		
	Influent	Effluent grab	Effluent comp	Influent	Effluent grab	Effluent comp	Influent	Effluent grab	Effluent comp
CBOD or BOD [™]									
Suspended Solids									
Fecal Coliform [^]	MPN MF	MPN MF	MPN MF	MPN MF	MPN MF	MPN MF	MPN MF	MPN MF	MPN MF
Chlorine Residual									
pH					6.7				
TEMP					54°				
OIL & GREASE					0.7 MGL				
PHENOLS					0.36 MGL				

*DEQ sampler - enter field measurements, if taken; indicate whether they are estimates.

[™]CBOD is when nitrification inhibitor is used in the BOD test. Circle the appropriate test.

[^]Indicate if analysis is by MPN or MF.

Date/Time BOD's set up at source lab: _____ Date/Time BOD's set up at DEQ lab: _____

Date/Time FC's set up at source lab: _____ Date/Time FC's set up at DEQ lab: _____

Fill in your split sample results and mail to:

DEQ Lab
 1712 SW 11th Ave.
 Portland, OR 97201
 Attn: QA Chemist

NOTE - This form does not replace the "Request for Analysis" laboratory form.

Koppers003590



COFFEY LABORATORIES, INC.

12423 N.E. WHITAKER WAY
PORTLAND, OR 97230
PHONE: (503) 254-1794
FAX: (503) 254-1452

May 14, 1990
Log #A900427-Q3
PO: Verbal John

Koppers Co., Inc.
7540 NW St. Helens Rd.
Portland, OR 97210-3663
Attention: John Oxford

Samples Received: 04/27/90

Sample ID: #1 - W-W-T-3 04/27/90 1100 hrs.

#2 - W-W-T-4 04/27/90 1100 hrs.

~~Outfall - DEQ Sample~~ 04/26/90 1030 hrs.

05/02/90 1225 hrs.

PARAMETER	METHOD	DETECTION LIMITS	#1	#2	#3	UNITS
Oil & Grease	EPA 413.2	0.2	0.8	0.9	0.7*	mg/L
Total Phenols	EPA 420.1	0.05	0.34	0.31	0.36*	mg/L

~~This sample was incorrectly collected and preserved by DEQ personnel
and these data can only be considered as approximate results~~

Sincerely,

V. A. Perry
Victor A. Perry,
Quality Assurance

Sincerely,

Renee Chauvin
Renee Chauvin,
Technical Director

RJC/lws

This report is for the sole and exclusive use of the client. Samples are retained a maximum of 15 days from the report date, or until the maximum holding time expires.

Please Note: Outfall was resampled with
Mr. Wipom of D.E.Q. These
results will be reported when received

RECEIVED

MAY 18 1990

KOPPERS INDS., INC.
PORTLAND, OR

J. A. Oxford

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Form Approved.
OMB No. 2040-0004
Approval expires 9-30-85

NAME KOPPERS INDUSTRIES INC

ADDRESS 7540 NW ST HELENS RD

PORTLAND OR 97210

OR-100077-9

PERMIT NUMBER

DISCHARGE NUMBER

FACILITY NW PLANT

LOCATION MULTNOMAH COUNTY

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	90	4	1		90	5	1
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

CORRECTED REPORT

K 3077-J

47430

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	<div></div>	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
FLOW	SAMPLE MEASUREMENT	3000							N/A	2/30	EST
	PERMIT REQUIREMENT		N/A								
TEMP	SAMPLE MEASUREMENT				56	56	56	°F	0	2/30	GRAB
	PERMIT REQUIREMENT										
PH	SAMPLE MEASUREMENT				6.8	6.85	6.9		0	2/30	GRAB
	PERMIT REQUIREMENT				6.0		9.0	SU			
OIL & GREASE	SAMPLE MEASUREMENT				0.8	0.85	0.9	MG/ L	0	2/30	GRAB
	PERMIT REQUIREMENT					10	15				
PHENOLS	SAMPLE MEASUREMENT				0.31	0.325	0.34	MG/ L	0	2/30	GRAB
	PERMIT REQUIREMENT					0.5	0.7	(PPM)			
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

JOHN A OXFORD
PLANT MANAGER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503
AREA
CODE

286-3681
NUMBER

90
YEAR

5
MO

21
DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

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6. Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average, as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit. (e.g. Enter "CONT." for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.)
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT" (e.g. Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.)

(FOLD HERE FIRST)

10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.

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HERE

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PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)

NAME KOPPERS INDUSTRIES INC

ADDRESS 7540 NW ST HELENS RD

PORTLAND OR 97210

FACILITY NW PLANT

LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)

OR-100077-9

PERMIT NUMBER

(17-19)

DISCHARGE NUMBER

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
90 4 1 90 5 1
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

3077-J

47430

NOTE: Read instructions before completing this form.

OCCUPATIONAL HEALTH
& PRODUCT SAFETY
MAY 18 1990
Form Approved
OMB No. 2040-0004
Approval expires 9-30-86

PARAMETER (32-37)		(3 Card Only) (46-53)			(4 Card Only) (38-45)			(4 Card Only) (46-53)			NO. EX. (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS					
FLOW	SAMPLE MEASUREMENT	3000									N/A	2/30	EST
	PERMIT REQUIREMENT		N/A	GPD									
TEMP	SAMPLE MEASUREMENT				56	56	56	°/F	0	2/30	GRAB		
	PERMIT REQUIREMENT						110						
PH	SAMPLE MEASUREMENT				6.8	6.85	6.9		0	2/30	GRAB		
	PERMIT REQUIREMENT				6.0		9.0	SU					
OIL & GREASE	SAMPLE MEASUREMENT				0.8	0.85	0.9	MG/L	0	2/20	GRAB		
	PERMIT REQUIREMENT					10	15						
PHENOLS	SAMPLE MEASUREMENT				0.05	0.18	0.31	MG/L	0	2/30	GRAB		
	PERMIT REQUIREMENT					0.5	0.7	(PPM)					
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE	DATE			
JOHN A OXFORD PLANT MANAGER			503 286-3681	90	5	15
TYPED OR PRINTED						
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

GENERAL INSTRUCTIONS

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2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER," and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
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7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average, as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit. (e.g., Enter "CONT." for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.)
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PLACE
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HERE

KOPPERS INDUSTRIES

Koppers Industries, Inc.
7540 N.W. Saint Helens Road
Portland, OR 97210-3663

Telephone: (503) 288-3681
FAX: (503) 285-2831

OCCUPATIONAL HEALTH
& PRODUCT SAFETY
MAY 21 1990

May 21, 1990

DEQ-Northwest Region
811 SW 6th Ave.
Portland Oregon 97204

Dear Sir:

Attached is a correct DEQ Report that covers the period of ~~Apr~~ 1, 1990 to May 1, 1990.

We are enclosing a photo copy of the original sent to you with the typing errors circled in red.

We are very sorry for any inconvenience this may have caused.

Yours Truly.

John A. Oxford

John A. Oxford
Plant Manager

*"Original" (Pgh copy) attached
with errors circled in red*

CC:BS

JAO:mn

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME KOPPERS INDUSTRIES, INC

ADDRESS 7540 N.W. ST. HELENS RD.

PORTLAND, OR 97210

FACILITY N.W. PLANT

LOCATION MULTNOMAH COUNTRY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

2-100077-9

PERMIT NUMBER

DISCHARGE NUMBER

MONITORING PERIOD

FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	90	3	1		90	4	1
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

OCCUPATIONAL HEALTH & PRODUCT SAFETY

3077-APR 30 1990
47430

Form Approved.
OMB No. 2040-0004
Approval expires 9-30-85

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			(5 Card Only) QUALITY OR CONCENTRATION (46-53)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS						
FLOW	SAMPLE MEASUREMENT	2903										N/A	2/31	EST
	PERMIT REQUIREMENT													
TEMP	SAMPLE MEASUREMENT				54	54	54	OF	0	2/31	GRAB			
	PERMIT REQUIREMENT						100							
P.H	SAMPLE MEASUREMENT				6.7	6.7	6.7	SU	0	2/31	GRAB			
	PERMIT REQUIREMENT				6.0		9.0							
OIL & GREASE	SAMPLE MEASUREMENT				1.0	1.2	1.4	MG/L	0	2/31	GRAB			
	PERMIT REQUIREMENT					10	15							
PHENOLS	SAMPLE MEASUREMENT				.20	.22	.24	MG/L	0	2/31	GRAB			
	PERMIT REQUIREMENT							PPM						
	SAMPLE MEASUREMENT													
	PERMIT REQUIREMENT													
	SAMPLE MEASUREMENT													
	PERMIT REQUIREMENT													

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE	DATE
JOHN A. OXFORD PLANT MANAGER			
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	503 286-3681	90 4 27
		AREA CODE NUMBER	YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

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7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit. (e.g., Enter "CONT." for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.)
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT" (e.g., Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "NA" for continuous monitoring, etc.)

(FOLD HERE FIRST)

10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.

11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT," "TELEPHONE NUMBER" and "DATE" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

This report is required by law (33 U.S.C. 1318; 40 C.F.R. 125.27). Failure to report or failure to report truthfully can result in civil penalties not to exceed \$10,000 per day of violation; or in criminal penalties not to exceed \$25,000 per day of violation, or by imprisonment for not more than one year, or by both.

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PLACE
STAMP
HERE

(FOLD HERE THIRD)

STAPLE HERE

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME KOPPERS INDUSTRIES INC
ADDRESS 7540 NW NW ST HELENS RD
PORTLAND OR 97210

FACILITY _____
LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) 2-100007-9
PERMIT NUMBER
(17-19) _____
DISCHARGE NUMBER

MONITORING PERIOD
FROM YEAR MO DAY TO YEAR MO DAY
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)
90 3 1

3077-J
47430

OCCUPATIONAL HEALTH
& PRODUCT SAFETY
MAR 22 1990

Form Approved
OMB No. 2040-0004
Approval expires 9-30-85

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (34-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW	SAMPLE MEASUREMENT	5429							6/28	EST
	PERMIT REQUIREMENT									
TEMP	SAMPLE MEASUREMENT				40	42	44		6/28	GRAB
	PERMIT REQUIREMENT						100			
PH	SAMPLE MEASUREMENT				6.4	6.55	6.7		6/28	GRAB
	PERMIT REQUIREMENT				6.0		0.0			
OIL & GREASE	SAMPLE MEASUREMENT				0.4	0.55	0.8		6/28	GRAB
	PERMIT REQUIREMENT					XX 10	15			
PHENOLS	SAMPLE MEASUREMENT				0.12	0.155	0.19		6/28	GRAB
	PERMIT REQUIREMENT					0.5	0.7			
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

JOHN A. OXFORD
PLANT MANAGER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503
AREA
CODE

286-3681
NUMBER

90
YEAR

3
MO

12
DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS" (and facility name/location, if different), "PERMIT NUMBER," and "DISCHARGE MONITORING PERIOD" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
5. Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE to municipalities with secondary treatment requirement, enter 30-day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM".)
6. Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit, (e.g., Enter "CONT." for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.)
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13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

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(FOLD HERE THIRD)

STAPLE HERE

PLACE
STAMP
HERE

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)

NAME KOPPERS INDUSTRIES INC

ADDRESS 7540 NW ST HELENS RD

PORTLAND OR 97210

FACILITY

LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

2-100077-9

PERMIT NUMBER

DISCHARGE NUMBER

3077 J
47430

OCCUPATIONAL HEALTH
& PRODUCT SAFETY

FEB 19 1990

Form Approved.
OMB No. 2040-0004
Approval expires 9-30-85

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	90	1	1		90	2	1
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
B FLOW	SAMPLE MEASUREMENT	11,613							N/	6/
	PERMIT REQUIREMENT		N/A						A	31 EST
TEMP	SAMPLE MEASUREMENT				82.43	48.75	56		6/	
	PERMIT REQUIREMENT						100		0	31 GRAB
PH	SAMPLE MEASUREMENT				6.3	6.6	7.0		6/	
	PERMIT REQUIREMENT				6.0		9.0		0	31 GRAB
OIL & GREASE	SAMPLE MEASUREMENT				0.6	0.926	1.4		6/	
	PERMIT REQUIREMENT					10	15		0	31 GRAB
PHENOLS	SAMPLE MEASUREMENT					0.235 XXX			6/	
	PERMIT REQUIREMENT					0.5	0.7		0	31 GRAB
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE		DATE		
JOHN A. OXFORD PLANT MANAGER		503 286-3681		90	2	14
TYPED OR PRINTED		AREA CODE	NUMBER	YEAR	MO	DAY

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER," and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
5. Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE to municipalities with secondary treatment requirement, enter 30-day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM".)
6. Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit. (e.g., Enter "CONT." for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.)
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT." (e.g., Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.)

(FOLD HERE FIRST)

10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER," with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT," "TELEPHONE NUMBER," and "DATE" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

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(FOLD HERE SECOND)

PLACE
STAMP
HERE

(FOLD HERE THIRD)

STAPLE HERE

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)

NAME KOPPERS INDUSTRIES INC

ADDRESS 7540 NW ST HELENS RD
PORTLAND OR 97210

FACILITY

LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)

2-100077-9

PERMIT NUMBER

(17-19)

DISCHARGE NUMBER

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
89 12 1 TO 90 1 1
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

3077 J
47430

NOTE: Read instructions before completing this form.

OCCUPATIONAL HEALTH
& PRODUCT SAFETY
JAN 18 1990

Form Approved
OMB No. 2040-0004
Approval expires 9-30-85

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-45) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS				
Flow	SAMPLE MEASUREMENT	3000								N/A	6/30	EST
	PERMIT REQUIREMENT		N/A									
TEMP	SAMPLE MEASUREMENT				49	49	49			0	6/30	GRAB
	PERMIT REQUIREMENT						110	° F				
PH	SAMPLE MEASUREMENT				6.7	6.8	6.9			0	6/30	GRAB
	PERMIT REQUIREMENT				6.0		9.0	SU				
OIL & GREASE	SAMPLE MEASUREMENT				NOTHING DETECTED			MG/L		0	6/30	GRAB
	PERMIT REQUIREMENT					10	15					
PHENOLS	SAMPLE MEASUREMENT				NOTHING DETECTED			MGLL (PPM)		0	6/30	GRAB
	PERMIT REQUIREMENT					0.5	0.7					
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE	DATE			
JOHN A OXFORD PLANT MANAGER			503 286-3681	90	1	15
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER," and "DISCHARGE MONITORING PERIOD" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
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6. Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average-as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit. (e.g., Enter "CONT." for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.)
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT" (e.g., Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.)

(FOLD HERE FIRST)

10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER, OR AUTHORIZED AGENT," "TELEPHONE NUMBER," and "DATE" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

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FOLD HERE SECOND

FOLD HERE THIRD

STAPLE HERE

PLACE
STAMP
HERE

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME KOPPERS INDUSTRIES INC
ADDRESS 7540 NW ST HELENS RD
PORTLAND OR 97210

FACILITY

LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

2-100077-9

PERMIT NUMBER

DISCHARGE NUMBER

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
89 11 1 89 12 11
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

30773

47430

NOTE: Read instructions before completing this form.

OCCUPATIONAL HEALTH
& PRODUCT SAFETY
DEC 18 1989

Form Approved.
OMB No. 2040-0004
Approval expires 9-30-85

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW	SAMPLE MEASUREMENT	3000							N/A	6/30 EST
	PERMIT REQUIREMENT		N/A							
TEMP	SAMPLE MEASUREMENT				54	54	54	0	6/30	GRAB
	PERMIT REQUIREMENT						110			
PH	SAMPLE MEASUREMENT				6.3	6.35	6.4	0	6/30	GRAB
	PERMIT REQUIREMENT				6.0		9.0		SU	
OIL & GREASE	SAMPLE MEASUREMENT				0	0.1	0.2	0	6/30	GRAB
	PERMIT REQUIREMENT					10	15			
PHENOLS	SAMPLE MEASUREMENT				0.09	0.105	0.12	0	6/30	GRAB
	PERMIT REQUIREMENT					0.5	0.7		MGLL/ (PPM)	
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

JOHN A OXFORD
PLANT MANAGER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE

OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503

286-3681

89

12

13

AREA CODE

NUMBER

YEAR

MO

DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
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9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT." (e.g., Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.)

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(FOLD HERE SECOND)

HERE
STAMP
PLACE

(FOLD HERE THIRD)

STAPLE HERE

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)

NAME Koppers Industries Inc
ADDRESS 7540 NW ST HELENS RD
PORTLAND OR 97210

FACILITY _____
LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

OR 100077 C
PERMIT NUMBER

DISCHARGE NUMBER

MONITORING PERIOD

FROM

YEAR MO DAY
89 10 11
(20-21) (22-23) (24-25)

TO

YEAR MO DAY
89 11 1
(26-27) (28-29) (30-31)

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NOTE: Read instructions before completing this form.

OCCUPATIONAL HEALTH
& PRODUCT SAFETY

NOV 13 1989

Form Approved
OMB No. 2040-0004
Expires 2-29-84

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (46-53)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	2903							N/A	6/31	EST
	PERMIT REQUIREMENT		N/A								
TEMP	SAMPLE MEASUREMENT				58	58	58		0	6/31	GRAB
	PERMIT REQUIREMENT						110	°F			
PH	SAMPLE MEASUREMENT				6.4	6.4	6.4		0	6/31	GRAB
	PERMIT REQUIREMENT				8.5		9.0	8.0			
OIL & GREASE	SAMPLE MEASUREMENT				0.45	0.485	0.52		0	6/31	GRAB
	PERMIT REQUIREMENT					10	15	MG/G			
PHENOLS	SAMPLE MEASUREMENT				0.08	0.09	0.10		1	6/31	GRAB
	PERMIT REQUIREMENT					0.5	0.7	MG/L (PPM)			
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

JOHN A OXFORD
PLANT MANAGER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503
AREA
CODE

286-3681

89

11

08

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER" and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
5. Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE to municipalities with secondary treatment requirement, enter 30-day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM".)
6. Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit. (e.g., Enter "CONT." for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.)
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT" (e.g., Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.)

(FOLD HERE FIRST)

10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT," "TELEPHONE NUMBER" and "DATE" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

This report is required by law (33 U.S.C. 1318; 40 C.F.R. 125.27). Failure to report or failure to report truthfully can result in civil penalties not to exceed \$10,000 per day of violation; or in criminal penalties not to exceed \$25,000 per day of violation, or by imprisonment for not more than one year, or by both.

FOLD HERE SECOND

HERE
STAMP
PLACE

FOLD HERE THIRD

STAPLE HERE

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME **KOPPERS INDUSTRIES INC**

ADDRESS **7540 NW ST HELENS RD
PORTLAND OR 97210**

FACILITY **XXXXXXXXXXXXXXX**

LOCATION **MULTNOMAH COUNTY**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)
OR-100077-9
PERMIT NUMBER

(17-19)
DISCHARGE NUMBER

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	89	9	1		89	10	1
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

OCCUPATIONAL HEALTH & PRODUCT SAFETY

3077 J
47430

OCT 16 1989

Form Approved
OMB No. 2040-0004
Expires 2-29-84

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)			NO. OF EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW	SAMPLE MEASUREMENT	3000								
	PERMIT REQUIREMENT		n/a	GPD						
TEMP	SAMPLE MEASUREMENT				65	65	65		6/30	GRAB
	PERMIT REQUIREMENT						110			
PH	SAMPLE MEASUREMENT				6.7		6.8		6/30	GRAB
	PERMIT REQUIREMENT				6.0	6.75	9.0			
OIL & GREASE	SAMPLE MEASUREMENT				0.37	0.41	0.45		6/30	GRAB
	PERMIT REQUIREMENT					10	15			
PHENOLS	SAMPLE MEASUREMENT				0.07	0.13	0.19		6/30	GRAB
	PERMIT REQUIREMENT				0	0.5	0.7			
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

**JOHN A OXFORD
PLANT MANAGER**

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

503 286-3681

DATE

89 10 11

AREA CODE

NUMBER

YEAR

MO

DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTER NAME/MAHING ADDRESS" (and facility name/location if different), "PERMIT NUMBER" and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
5. Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in terms specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE to municipalities with secondary treatment requirement, enter 30-day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM".)
6. Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit (e.g. Enter "CONT." for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.).
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT" (e.g. Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.).

(FOLD HERE FIRST)

10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT", "TELEPHONE NUMBER" and "DATE" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

This report is required by law (33 U.S.C. 1318; 40 C.F.R. 125.27). Failure to report or failure to report truthfully can result in civil penalties not to exceed \$10,000 per day of violation; or in criminal penalties not to exceed \$25,000 per day of violation, or by imprisonment for not more than one year, or by both.

FOLD HERE SECOND

PLACE
STAMP
HERE

FOLD HERE THIRD

STAPLE HERE

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME **KOPPERS INDUSTRIES INC**
ADDRESS **7540 NW ST HELENS RD**
PORTLAND OREGON 97210

FACILITY
LOCATION **MULTNOMAH COUNTY**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) **OR-100077-9**
PERMIT NUMBER
(17-19)
DISCHARGE NUMBER

MONITORING PERIOD
FROM YEAR MO DAY TO YEAR MO DAY
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)
89 7 1 89 8 1

3077J
47430

Form Approved
OMB No. 2040-0004
Expires 2-29-84
OCCUPATIONAL HEALTH
& PRODUCT SAFETY
AUG-17 1989

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	2903							N/A	6/31	EST
	PERMIT REQUIREMENT		NA	GPD							
TEMP	SAMPLE MEASUREMENT				69	69	69	°F	0	6/31	GRAB
	PERMIT REQUIREMENT										
PH	SAMPLE MEASUREMENT				6.4	6.55	6.7		0	6/31	GRAB
	PERMIT REQUIREMENT				6.0		X8 9.0	SU			
OIL & GREASE	SAMPLE MEASUREMENT				1.0	1.2	1.4	MG/L	0	6/31	GRAB
	PERMIT REQUIREMENT					1.0	1.5				
PHENOLS	SAMPLE MEASUREMENT				0.26	0.27	0.28	MG/L (PPM)	1	6/31	GRAB
	PERMIT REQUIREMENT					0.5	0.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

PLANT MANAGER
JOHN A OXFORD

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN. AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE

503 286-3681

DATE

89 8 14

AREA CODE NUMBER YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
 2. Enter **PERMITTEE NAME/MAILING ADDRESS** (and facility name/location, if different), **PERMIT NUMBER** and **DISCHARGE MONITORING PERIOD** where indicated. (A separate form is required for each discharge.)
 3. Enter dates beginning and ending **MONITORING PERIOD** covered by form where indicated.
 4. Enter each **PARAMETER** as specified in monitoring requirements of permit.
 5. Enter **SAMPLE MEASUREMENT** data for each parameter under **QUANTITY** and **QUALITY** in units specified in permit. **AVERAGE** is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during **MONITORING PERIOD**. **MAXIMUM** and **MINIMUM** are normally extreme high and low measurements obtained during **MONITORING PERIOD**. (NOTE to municipalities with secondary treatment requirement, enter 30-day average of sample measurements under **AVERAGE** and enter maximum 7-day average of sample measurements obtained during monitoring period under **MAXIMUM**.)
 6. Enter **PERMIT REQUIREMENT** for each parameter under **QUANTITY** and **QUALITY** as specified in permit.
 7. Under **NO. EX.** enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
 8. Enter **FREQUENCY OF ANALYSIS**, both as **SAMPLE MEASUREMENT** (actual frequency of sampling and analysis used during monitoring period) and as **PERMIT REQUIREMENT** specified in permit (e.g. Enter "CONT" for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.).
 9. Enter **SAMPLE TYPE** both as **SAMPLE MEASUREMENT** (actual sample type used during monitoring period) and as **PERMIT REQUIREMENT** (e.g. Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "NZA" for continuous monitoring, etc.).
- (FOLD HERE FIRST)
10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN, REFERENCE EACH VIOLATION BY DATE.
 11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
 12. Enter **NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER** with **SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER** OR **AUTHORIZED AGENT**, **TELEPHONE NUMBER**, and **DATE** at bottom of form.
 13. Mail signed Report to Officer(s) by date(s) specified in permit. Retain copy for your records.
 14. More detailed instructions for use of this **DISCHARGE MONITORING REPORT (DMR)** form may be obtained from Officer(s) specified in permit.

LEGAL NOTICE

This report is required by law (33 U.S.C. 1318, 40 C.F.R. 125.274). Failure to report or failure to report truthfully can result in civil penalties not to exceed \$10,000 per day of violation; or in criminal penalties not to exceed \$25,000 per day of violation; or by imprisonment for not more than one year, or by both.

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STAPLE HERE

NAME _____
ADDRESS _____
7540 N.W. ST. HELEN'S RD.
PORTLAND, OREGON 97216
OFFICE INDUSTRIES, INC.

OR-106077-9

(17-19)	DISCHARGE NUMBER
---------	------------------

FACILITY	LOCATION	NOTIFICATION COUNTY

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
89	6	1		89	7	1

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) (46-53)			(4 Card Only) (38-45)			(4 Card Only) (34-41)			NO. EX. ANALYSIS (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS					
FLOW	SAMPLE MEASUREMENT	3000									N/A	2/30	est
	PERMIT REQUIREMENT		NA	GPD									
T.D.P.	SAMPLE MEASUREMENT				58	58		58			0	2/30	grab
	PERMIT REQUIREMENT												
P.H.	SAMPLE MEASUREMENT				6.6	6.65		6.7			0	2/30	grab
	PERMIT REQUIREMENT				6.0			9.0					
OIL & GREASE	SAMPLE MEASUREMENT				0.9	0.9		0.9				2/30	grab
	PERMIT REQUIREMENT					10		15					
PHENOLS	SAMPLE MEASUREMENT				0.21	0.235		0.26				2/30	grab
	PERMIT REQUIREMENT					0.5		0.7					
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												
	SAMPLE MEASUREMENT												
	PERMIT REQUIREMENT												

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

PLANT MANAGER

JOHN B. OXFORD

1. I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

503

286-3681

89

7

15

TELEPHONE

DATE

TYPED OR PRINTED

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTER NAME/MAILING ADDRESS" (and facility name/location, if different), "PERMIT NUMBER" and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
5. Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE to municipalities with secondary treatment requirement: enter 30-day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM".)
6. Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit. (e.g. Enter "CONT" for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.)
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT" (e.g. Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.)

(FOLD HERE FIRST)

10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If no discharge occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT," "TELEPHONE NUMBER" and "DATE" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this "DISCHARGE MONITORING REPORT (DMR)" form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

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(FOLD HERE SECOND)

HERE
PLACE
STAMP

STAPLE HERE

FOLD HERE THIRD

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME **KOPPERS INDUSTRIES INC.**

ADDRESS **7540 NW ST HELENS RD
PORTLAND OREGON 97210-3663**

FACILITY LOCATION **MULTONOMAH COUNTY**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) **OR-100077-9** (17-19)
PERMIT NUMBER DISCHARGE NUMBER

MONITORING PERIOD
FROM YEAR MO DAY TO YEAR MO DAY
89 5 1 89 6 1
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

OCCUPATIONAL HEALTH
& PRODUCT SAFETY

307.13
47430
JUN 20 1989

Form Approved
OMB No. 2040-0004
Expires 2-29-84

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	NO FLOW									
	PERMIT REQUIREMENT										
TEMPERATURE	SAMPLE MEASUREMENT	NO FLOW									
	PERMIT REQUIREMENT										
PH	SAMPLE MEASUREMENT				NO FLOW						
	PERMIT REQUIREMENT										
OIL & GREASE	SAMPLE MEASUREMENT				NO FLOW						
	PERMIT REQUIREMENT										
PHENOLS	SAMPLE MEASUREMENT				NO FLOW						
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
**JOHN A. OXFORD
PLANT MANAGER**

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND, BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
John A. Oxford
TELEPHONE NUMBER
503 286-3681
DATE
89 6 15
AREA CODE NUMBER YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter **PERMITTEE NAME/MAILING ADDRESS** (and facility name/location, if different), **PERMIT NUMBER**, and **DISCHARGE NUMBER** where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending **MONITORING PERIOD** covered by form where indicated.
4. Enter each **PARAMETER** as specified in monitoring requirements of permit.
5. Enter **SAMPLE MEASUREMENT** data for each parameter under **QUANTITY** and **QUALITY** in units specified in permit. **AVERAGE** is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during **MONITORING PERIOD**. **MAXIMUM** and **MINIMUM** are normally extreme high and low measurements obtained during **MONITORING PERIOD**. (NOTE to municipalities with secondary treatment requirement, enter 30-day average of sample measurements under **AVERAGE** and enter maximum 7-day average of sample measurements obtained during monitoring period under **MAXIMUM**.)
6. Enter **PERMIT REQUIREMENT** for each parameter under **QUANTITY** and **QUALITY** as specified in permit.
7. Under **NO. EX.** enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter **FREQUENCY OF ANALYSIS**, both as **SAMPLE MEASUREMENT** (actual frequency of sampling and analysis used during monitoring period) and as **PERMIT REQUIREMENT** specified in permit (e.g., Enter "CONT." for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.).
9. Enter **SAMPLE TYPE** both as **SAMPLE MEASUREMENT** (actual sample type used during monitoring period) and as **PERMIT REQUIREMENT** (e.g., Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.).

(FOLD HERE FIRST)

10. **WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED**, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If no discharge occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter **NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER** with **SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT**, **TELEPHONE NUMBER**, and **DATE** at bottom of form.
13. Mail Signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this **DISCHARGE MONITORING REPORT (DMR)** form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

This report is required by law (33 U.S.C. 1318; 40 C.F.R. 125.27). Failure to report or failure to report truthfully can result in civil penalties not to exceed \$10,000 per day of violation, or in criminal penalties not to exceed \$25,000 per day of violation, or by imprisonment for not more than one year, or by both.

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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME **KOPPERS INDUSTRIES INC.**

ADDRESS **7540 NW ST HELENS RD**

PORTLAND OR 97210-3663

FACILITY **MULTONOMAH COUNTY**

LOCATION **MULTONOMAH COUNTY**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16) 0R100077-9	(17-19)
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	87	4	1		87	5	1
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

3077J
47430

Form Approved
OMB No. 2040-0004
Expires 2-29-84
OCCUPATIONAL HEALTH
& PRODUCT SAFETY

MAY 22 1989

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	NO FLOW									
	PERMIT REQUIREMENT										
TEMPERATURE	SAMPLE MEASUREMENT	NO FLOW									
	PERMIT REQUIREMENT										
PH	SAMPLE MEASUREMENT				NO FLOW						
	PERMIT REQUIREMENT										
OIL & GREASE	SAMPLE MEASUREMENT				NO FLOW						
	PERMIT REQUIREMENT										
PHENOLS	SAMPLE MEASUREMENT				NO FLOW						
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

JOHN A OXFORD
PLANT MANAGER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE

503 286-3681

DATE

89 5 15

AREA CODE

NUMBER

YEAR

MO

DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS" (and facility name/location, if different), "PERMIT NUMBER" and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
5. Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE to municipalities with secondary treatment requirement, enter 30-day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM.")
6. Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit (e.g. Enter "CONT" for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.).
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT" (e.g. Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "NZA" for continuous monitoring, etc.).

(FOLD HERE FIRST)

10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT," "TELEPHONE NUMBER" and "DATE" at bottom of form.
13. Mail signed Report to Office(s) by dates(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

This report is required by law (33 U.S.C. 1318; 40 C.F.R. 125.27). Failure to report or failure to report truthfully can result in civil penalties not to exceed \$10,000 per day of violation, or in criminal penalties not to exceed \$25,000 per day of violation, or by imprisonment for not more than one year, or by both.

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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
KOPPERS INDUSTRIES INC.

NAME
ADDRESS 7540 NW ST HELENS RD
PORTLAND OR 97210-3663

FACILITY
LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

OR-100077-9
PERMIT NUMBER

DISCHARGE NUMBER

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
89 3 1 TO 89 4 1
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

3077J
37430

NOTE: Read instructions before completing this form.

Form Approved
OMB No. 2040-0004
EPA Regs 2-29-84
OCCUPATIONAL HEALTH
& PRODUCT SAFETY
APR 17 1989

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) (54-61)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
FLOW	SAMPLE MEASUREMENT	8710								6/31	EST
	PERMIT REQUIREMENT		NA	GPD							
TEMP	SAMPLE MEASUREMENT				44	49.83	54	°F	0	6/31	GRAB
	PERMIT REQUIREMENT										
PH	SAMPLE MEASUREMENT				6.4	6.56	6.7		0	6/31	GRAB
	PERMIT REQUIREMENT				6.0		9.0	SU			
OIL & GREASE	SAMPLE MEASUREMENT				0.6	0.43	0.7	MG/L	0	6/31	GRAB
	PERMIT REQUIREMENT					10	15				
PHENOLS	SAMPLE MEASUREMENT				0.18	0.27	0.39	MG/L	1	6/31	GRAB
	PERMIT REQUIREMENT					0.5	0.7	(PPM)			
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

JOHN A OXFORD
PLANT MANAGER

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

503
AREA CODE

286-3681
NUMBER

89
YEAR

4
MO

14
DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS" (and facility name/location, if different), "PERMIT NUMBER" and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
5. Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE: to municipalities with secondary treatment requirement, enter 30-day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM.")
6. Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit (e.g., Enter "CONT." for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.).
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT" (e.g., Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "NZA" for continuous monitoring, etc.).

(FOLD HERE FIRST)

10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If no discharge occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT," "TELEPHONE NUMBER" and "DATE" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

This report is required by law (33 U.S.C. 1318; 40 C.F.R. 125.27). Failure to report or failure to report truthfully can result in civil penalties to exceed \$10,000 per day of violation, or in criminal penalties not to exceed \$25,000 per day of violation, or by imprisonment for not more than one year, or by both.

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PLACE

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PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME KOPPERS INDUSTRIES INC.

ADDRESS 7540 NW ST HELENS RD
PORTLAND OREGON 97210-3663

FACILITY

LOCATION MULTONAHAMH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)

OR-1000077-9

PERMIT NUMBER

(17-19)

DISCHARGE NUMBER

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
89 2 1 89 3 1
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

3077J

47430

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)				(46-53)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS						
R&W FLOW	SAMPLE MEASUREMENT	3214										N/A	2/28	EST
	PERMIT REQUIREMENT		N/A	GPD										
TEMP	SAMPLE MEASUREMENT				42	42	42	OF	0	2/28	GRAB			
	PERMIT REQUIREMENT													
PH	SAMPLE MEASUREMENT				6.7	6.75	6.8		0	2/28	GRAB			
	PERMIT REQUIREMENT				6.0		9.0	SU						
OIL & GREASE	SAMPLE MEASUREMENT				0.5	0.55	0.6	MG/L	0	2/28	GRAB			
	PERMIT REQUIREMENT					10	15							
PHENOLS	SAMPLE MEASUREMENT				0.15	0.18	0.21	MG/L	0	2/28	GRAB			
	PERMIT REQUIREMENT					0.5	0.7	PPM						
	SAMPLE MEASUREMENT													
	PERMIT REQUIREMENT													
	SAMPLE MEASUREMENT													
	PERMIT REQUIREMENT													

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT, SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE	DATE			
JOHN A OXFORD PLANT MANAGER			503 286-3681	89	03	14
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS" (and facility name/location, if different), "PERMIT NUMBER", and "DISCHARGE MONITORING PERIOD" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
5. Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD". "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD". (NOTE to municipalities with secondary treatment requirement, enter 70-day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM".)
6. Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit (e.g. Enter "CONT" for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.).
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT" (e.g. Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "NZA" for continuous monitoring, etc.).

(FOLD HERE FIRST)

10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER" OR "AUTHORIZED AGENT", "TELEPHONE NUMBER", and "DATE" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

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(FOLD HERE THIRD)

STAPLE HERE

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)

NAME KOPPERS COMPANY INC.

ADDRESS 7540 N.W. ST. HELENS RD
PORTLAND OREGON 97210-3663

FACILITY

LOCATION MULTONAMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

OR-1000077-9

PERMIT NUMBER

DISCHARGE NUMBER

30773

47430

MONITORING PERIOD

FROM YEAR MO DAY TO YEAR MO DAY
89 1 1 89 2 1
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	8710								6/31	EST
	PERMIT REQUIREMENT		NA	gwp							
TEMP	SAMPLE MEASUREMENT				46	48	52			6/31	GRAB
	PERMIT REQUIREMENT						110				
PH	SAMPLE MEASUREMENT				6.5	6.65	6.8			6/31	GRAB
	PERMIT REQUIREMENT				6.0		9.0	SU			
OIL & GREASE	SAMPLE MEASUREMENT				0.6	0.8	1.0	MG/L		6/31	GRAB
	PERMIT REQUIREMENT					10	15				
PHENOLS	SAMPLE MEASUREMENT				0.13	0.213	0.29	MG/L		6/31	GRAB
	PERMIT REQUIREMENT					0.5	0.7	PPM			
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)									
JOHN A OXFORD EXX PLANT MANAGER											
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT									
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)		TELEPHONE			DATE						
		503 286-3681			2 13 89						
		AREA CODE			NUMBER			YEAR MO DAY			

GENERAL INSTRUCTIONS

1. If form has been partially completed by preprinting, disregard instructions directed at entry of that information already preprinted.
2. Enter "PERMITTEE NAME/MAILING ADDRESS (and facility name/location, if different)," "PERMIT NUMBER," and "DISCHARGE NUMBER" where indicated. (A separate form is required for each discharge.)
3. Enter dates beginning and ending "MONITORING PERIOD" covered by form where indicated.
4. Enter each "PARAMETER" as specified in monitoring requirements of permit.
5. Enter "SAMPLE MEASUREMENT" data for each parameter under "QUANTITY" and "QUALITY" in units specified in permit. "AVERAGE" is normally arithmetic average (geometric average for bacterial parameters) of all sample measurements for each parameter obtained during "MONITORING PERIOD." "MAXIMUM" and "MINIMUM" are normally extreme high and low measurements obtained during "MONITORING PERIOD." (NOTE to municipalities with secondary treatment requirement, enter 30-day average of sample measurements under "AVERAGE" and enter maximum 7-day average of sample measurements obtained during monitoring period under "MAXIMUM.")
6. Enter "PERMIT REQUIREMENT" for each parameter under "QUANTITY" and "QUALITY" as specified in permit.
7. Under "NO. EX" enter number of sample measurements during monitoring period that exceed maximum (and/or minimum or 7-day average as appropriate) permit requirement for each parameter. If none, enter "0".
8. Enter "FREQUENCY OF ANALYSIS" both as "SAMPLE MEASUREMENT" (actual frequency of sampling and analysis used during monitoring period) and as "PERMIT REQUIREMENT" specified in permit (e.g. Enter "CONT" for continuous monitoring, "1/7" for one day per week, "1/30" for one day per month, "1/90" for one day per quarter, etc.).
9. Enter "SAMPLE TYPE" both as "SAMPLE MEASUREMENT" (actual sample type used during monitoring period) and as "PERMIT REQUIREMENT" (e.g. Enter "GRAB" for individual sample, "24HC" for 24-hour composite, "N/A" for continuous monitoring, etc.).

(FOLD HERE FIRST)

10. WHERE VIOLATIONS OF PERMIT REQUIREMENTS ARE REPORTED, ATTACH A BRIEF EXPLANATION TO DESCRIBE CAUSE AND CORRECTIVE ACTIONS TAKEN. REFERENCE EACH VIOLATION BY DATE.
11. If "no discharge" occurs during monitoring period, enter "NO DISCHARGE" across form in place of data entry.
12. Enter "NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER" with "SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER" OR "AUTHORIZED AGENT," "TELEPHONE NUMBER" and "DATE" at bottom of form.
13. Mail signed Report to Office(s) by date(s) specified in permit. Retain copy for your records.
14. More detailed instructions for use of this DISCHARGE MONITORING REPORT (DMR) form may be obtained from Office(s) specified in permit.

LEGAL NOTICE

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See entire permit in permit file

PA

Permit Number: 100419
Expiration Date: 11/30/92
File Number: 47430
Page 1 of 4 Pages

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

WASTE DISCHARGE PERMIT

Department of Environmental Quality
811 S.W. Sixth Avenue, Portland, Oregon 97204
Telephone: (503) 229-5696

Issued pursuant to ORS 468.740 and The Federal Clean Water Act.
TRANSFERRED 6-26-89

ISSUED TO:
Koppers Industries, Inc.
~~Koppers Company, Inc.~~
7540 N.W. St. Helens Rd.
Portland, OR 97229

SOURCES COVERED BY THIS PERMIT:

<u>Type of Waste</u>	<u>Outfall Number</u>	<u>Outfall Location</u>
Tank Farm Runoff and Boiler Blowdown	001	R.M. 6.5

PLANT TYPE AND LOCATION:

Creosote Terminal
7540 N.W. St. Helens Rd.
Portland, Oregon

RECEIVING STREAM INFORMATION:

Major Basin: Willamette
Minor Basin: ---
Receiving Stream: Willamette River
County: Multnomah
Applicable Standards: OAR 340-41-445

EPA REFERENCE NO: OR-000077-9

Issued in response to Application No. 200077-9 received July 19, 1984.

This permit is issued based on the land use findings in the permit record.


Fred Hansen, Director

JAN 08 1988
Date

PERMITTED ACTIVITIES

Until this permit expires or is modified or revoked, the permittee is authorized to construct, install, modify or operate a waste water collection, treatment, control and disposal system and discharge to public waters adequately treated waste waters only from the authorized discharge point or points established in Schedule A and only in conformance with all the requirements, limitations, and conditions set forth in the attached schedules as follows:

	<u>Page</u>
Schedule A - Waste Discharge Limitations not to be Exceeded..	2
Schedule B - Minimum Monitoring and Reporting Requirements...	3
Schedule C - Compliance Conditions and Schedules.....	-
Schedule D - Special Conditions.....	4
General Conditions.....	Attached

Each other direct and indirect waste discharge to public waters is prohibited.

This permit does not relieve the permittee from responsibility for compliance with any other applicable federal, state, or local law, rule, standard, ordinance, order, judgment, or decree.

SCHEDULE A

1. Waste Discharge Limitations not to be Exceeded After Permit Issuance Date

Outfall Number 001

	Concentrations	
	Monthly Ave.	Daily Max.
	mg/l	mg/l
Oil & Grease	10	15
Phenols	0.5	0.7

Other Parameters

Limitations

pH Shall be within the range of 6.0-9.0
Temperature Shall not exceed 110° F

2. Notwithstanding the effluent limitations established by this permit, no wastes shall be discharged and no activities shall be conducted which will violate Water Quality Standards as adopted in OAR 340-41-445 except in the following defined mixing zone:

The allowable mixing zone is defined as that portion of the Willamette River within 200 feet of the point of discharge.

SCHEDULE B

Minimum Monitoring and Reporting Requirements (unless otherwise approved
in writing by the Department)

Outfall Number 001

<u>Item or Parameter</u>	<u>Minimum Frequency</u>	<u>Type of Sample</u>
Flow /	Daily	Estimate
Temperature	Daily	Grab
pH	Daily	Grab
Oil & Grease	Weekly	Grab
Phenols 1	Monthly	Grab
Polynuclear Aromatic Hydrocarbons (PAH) 2	Annual	Grab

Reporting Procedures

Monitoring results shall be reported on approved forms. The reporting period is the calendar year. Reports must be submitted to the Department by January 15th of the following year.

1 Test procedures for phenols should conform with Standard Methods No. 510, 16th edition.

2 Test procedures for polynuclear aromatic hydrocarbons (PAH) should conform with EPA Method 610.

Expiration Date: 11/30/92
File Number: 47430
Page 4 of 4 Pages

SCHEDULE D

Special Conditions

1. Sanitary wastes shall be disposed of to the City of Portland municipal sewage system.
2. An adequate contingency plan for prevention and handling of spills and unplanned discharges shall be in force at all times. A continuing program of employee orientation and education shall be maintained to ensure awareness of the necessity of good inplant control and quick and proper action in the event of a spill or accident.
3. No emulsifying agents or detergents shall be discharged into or otherwise be allowed to enter into the oil-water separator.
4. Thirty days following the issuance of the permit, the permittee shall initiate sampling of polynuclear aromatic hydrocarbons (PAH) as required in Schedule B. Upon review of the data, the Department may change the phenol limits to PAH of this permit in accordance with procedures in OAR 340-45-055.

P47430.W (1)



CITY OF

PORTLAND, OREGON

BUREAU OF ENVIRONMENTAL SERVICES

Earl Blumenauer, Commissioner
John Lang, Administrator
1120 S.W. 5th, Rm. 400
Portland, Oregon 97204-1972
(503) 796-7740
FAX: (503) 796-6995

June 26, 1990

Reply by: 07/06/1990

Mr. John Oxford
Koppers Industries
7540 NW St. Hellens Rd.
Portland, Or. 97210

OCCUPATIONAL HEALTH
& PRODUCT SAFETY

JUL 12 1990

Dear Mr. Oxford:

Portland, like other municipalities, is required under the federal Clean Water Act to maintain a current list of all non-domestic sewer users. In order to comply with this requirement the City periodically surveys all non-domestic dischargers to the publicly owned treatment works (POTW). Information obtained through these surveys is a critical first step in the identification of industrial users of specific interest as outlined by the federal regulations.

Enclosed is a general Industrial User Survey (IUS). Please provide the information that applies to your business and return by the date indicated. Once the City has reviewed your IUS you will be contacted by an Industrial Waste Section representative who will schedule a site inspection. The IUS and the inspection report will be the basis of your firm's initial classification in the City's program.

Thank you for your cooperation with the City of Portland in the implementation of our Industrial Pretreatment Program.

If you have any questions about the City's Industrial Monitoring Program, or on the completion of the survey, please call me at: (503) 796-7568

Sincerely,

Miguel A. Santana
Environmental Services
Industrial Wastewater Technician

RECEIVED

JUL 5 1990

KOPPERS INDS., INC.
PORTLAND, OR

cc. HGE
TEB
file

Engineering
Bill Gaffi
796-7181

Business Operations
Bob Rieck
796-7133

Wastewater Treatment
Ross Peterson
285-0205

Customer/Employee Affairs
Karen Kramer
796-7062

Koppers003629

CITY OF PORTLAND
BUREAU OF ENVIRONMENTAL SERVICES
INDUSTRIAL WASTE SECTION
INDUSTRIAL/COMMERCIAL SEWER USE SURVEY

BUSINESS NAME: KOPPERS INDUSTRIES INC

MAILING ADDRESS: 7540 NW ST HELENS RD
PORTLAND OR
97210

SITE ADDRESS: SAME

BUSINESS DESCRIPTION:

Please provide a brief description of manufacturing or service related activity on premises, to include Standard Industrial Classification (SIC) and principal raw materials and products.

SIC # 2865 PRINCIPAL PRODUCTS HANDLED COAL TAR CREOSOTE
COAL TAR PITCH REFINED TAR. THIS LOCATION IS A TERMINAL OPERATION
THERE IS NO WASTE WATER OR PRODUCTS GENERATED. NO MANUFACTURING
OPERATION. STORM WATER RUN OFF DISCHARGE UNDER N.P.D.E.S. PERMIT.

Do you discharge any waste or wastewater, directly or indirectly, other than sanitary wastes to the City of Portland sewage collection system?

YES

☐

NO

☒

If your answer to the above question is YES describe the waste discharged and include specific chemical components.

The information contained in this survey is familiar to me and to the best of my knowledge and belief is complete and accurate.

John A. Gofford PLANT MANAGER
Signature and Title
of Responsible Official

7-10-90

Date

Koppers003630

PORTLAND BRANCH

12423 NE Whitaker Way

Portland, OR 97230

(503) 254-1794 FAX: (503) 254-1452

COFFEY LABORATORIES, INC.
CHAIN OF CUSTODY AGREEMENT
PENDLETON BRANCH

287 SE First

Pendleton, OR 97801

(503) 276-0385

Report
Attention: <u>AMAR KAMILLER</u>
Company
Name: <u>KOPPERS INC</u>
Address: <u>7540 NW 18th H-chen S</u>
<u>Portland OR 97210-3463</u>
Phone: <u>(503) 286-3461</u> FAX: <u>(503) 285-2831</u>
Report Instructions:

Project	
Name:	
Project	
Number:	
PO Number:	
<div> Sample Turnaround </div> <div> <input type="checkbox"/> Standard <input type="checkbox"/> Priority (1.5x Std. Fee) <input checked="" type="checkbox"/> Rush (2x Std. Fee) <input checked="" type="checkbox"/> Emergency (3x Std. Fee) </div>	<div> Reporting Request </div> <div> <input type="checkbox"/> FAX (T-35) <input type="checkbox"/> Verbals (T-1157) <input type="checkbox"/> Extra Report Copy (T-1402) (Fees Associated) </div>
Initials:	

FOR LABORATORY USE ONLY		Page	of
Job Number:	<u>W695013-B</u>		
Custabbr:	<u>KOPPERS</u> <input type="checkbox"/> NEW		
<input type="checkbox"/> VISA <input type="checkbox"/> M/C Expires:			
Card #:			
Cash / Check: \$	#:		
Billing Code:	1	2	3 4
QC LEVEL:	1	2	3 4
FEDX	BUS	COURIER	UPS LAB CLIENT MAIL

Sample ID	Loc.	ID	Collection Date / Time	Media	Analysis Requested	Test/Profile
WWT 1, 3, 5 composite			1-13-95 10:00		Oil / Grease	
WWT 2, 4			11 7:54		11	
WWT 5			11 9:58		11	
WWT 1, 3, 5 composite			11 11		Phenols	
WWT 2, 4			11 11		11 Phenols	
WWT 1			10 11:45 9:58		11	
WWT 2			11 7:58		11	
WWT 5			11 9:58		11	
Sample Comments:						

Sampled by: (Please Print)	Relinquished by: (Please Sign)	Date	Time	Received by: (Sign)	Date	Time
<u>Basil Newwood</u>	<u>Basil Newwood</u>	1-13-95	10:00	<u>[Signature]</u>	1-13-95	10:30
White Copy - Laboratory Copy	Yellow Copy - Client Copy					
SHADED AREAS FOR LABORATORY USE ONLY						
				LAB <u>Crystal Burkhead</u>		

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO CLI WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THE CLIENT COPY.

Koppers003631

COFFEY LABORATORIES, INC.
CHAIN OF CUSTODY INSTRUCTIONS/CONDITIONS SHEET

INSTRUCTIONS

FOR-LAB USE ONLY -	All shaded areas are for laboratory use only. <u>Please Do Not Write in These Areas.</u>
REPORT ATTENTION -	Name of the person who receives the laboratory report.
COMPANY NAME -	Name of the company or individual requesting the analysis.
REPORT ADDRESS -	Address of the company or individual requesting the analysis. (Address where report should be mailed)
REPORT INSTRUCTIONS -	A brief description of any special mail instructions, or address information pertaining to extra report copies.
PROJECT NAME -	Applies to customer project name. This data is provided at the customer's discretion.
PROJECT NUMBER -	Applies only to samples submitted by the customer. This data is provided at the customer's discretion.
FIELD ID -	A short description of the sample point (e.g., "Effluent from sand filter"). This description will appear on the report.
COLLECTION DATE -	The date on which the sample(s) was/were collected.
COLLECTION TIME -	The time at which the sample(s) was/were collected.
MEDIA -	This is a description of the sample media (e.g., drinking water, waste water, soil, etc.).
ANALYSIS REQUESTED -	Use one line for each analysis or group of analyses associated to a specific bottle.
SAMPLE COLLECTED BY -	The person who collected the sample(s) signs here.
RELINQUISHED BY -	The sampler signs this box when he/she gives the sample to someone else, and then fills in the date/time the sample left his/her possession.
RECEIVED BY -	The person who receives the sample(s) signs here and fills in the date/time received. The date and time should be same as "Relinquished by" unless the sample(s) was/were shipped.
JOB OR SAMPLE REMARKS -	General sample or job remarks.

CONDITIONS

PRICING AND CHARGES

Prices to be charged for work performed for CLIENT are those currently published in the Coffey Laboratories, Inc. (CLI) standard pricebook. CLIENT must notify CLI of price quotation at the time of the transfer of sample(s) to CLI. All submissions of samples with testing requirements to CLI will be understood to be an agreement for services. Any cancellation of testing requirements will result in charges being assessed on all testing completed prior to the notice of cancellation.

DELIVERY AND LIABILITY LIMITATIONS

CLI will analyze samples provided by CLIENT as requested by CLIENT in accordance with the procedures documented in the CLI Quality Assurance Plan (QAP). The maximum total liability assumed by CLI for work performed for CLIENT will in all cases be limited to the cost of the analysis. The specific format of the deliverable goods will be defined by CLIENT to CLI upon transfer of the samples to CLI. This warranty supersedes all other warranties.

CONFIDENTIALITY

CLI will use its best efforts to treat all information regarding work performed for CLIENT as proprietary and confidential to the maximum extent allowed by law. NO CLIENT information will be released without the written consent of the CLIENT billed for the work.

APPLICABLE LAW

Legal matters arising from work performed by CLI for CLIENT will be construed and interpreted in accordance with the laws for the state of Oregon.

KOPPERS INDUSTRIES

Amos S. Kameron
Plant Manager

Koppers Industries, Inc.
7540 N.W. St. Helens Road
Portland, OR 97210-3663

Telephone: 503-286-3681
Fax: 503-285-2831

February 9, 1995

Mr. Elliot Zais
Oregon Department of Environmental Quality
2020 SW Fourth Ave. #400
Portland, OR 97201

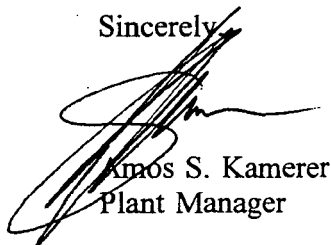
Reference: NPDES-DMR January 1995

Dear Mr. Zais:

Enclosed please find an amended DMR for January. One discharge and the related analysis information was accidentally omitted in the original report that was dated 2/2/95. Only the flow and oil and grease information was affected by this omission and no violation resulted.

Please accept my apology for this error.

Sincerely,



Amos S. Kameron
Plant Manager

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)

NAME KOPPERS INDUSTRIES, INC.

ADDRESS 7540 NW ST HELENS ROAD
PORTLAND, OR 97210

FACILITY NORTHWEST PLANT DEQ #47430

LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

101003

PERMIT NUMBER

01

DISCHARGE NUMBER

AMENDED

3077-J

47430

Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

MONITORING PERIOD

FROM

YEAR MO DAY
95 01 01

(20-21) (22-23) (24-25)

TO

YEAR MO DAY
95 01 31

(26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW	SAMPLE MEASUREMENT	15,161		GPD					N/A	10/31	EST.
	PERMIT REQUIREMENT	NA	N/A								
TEMPERATURE	SAMPLE MEASUREMENT				46	49	53		0	10/31	GRAB
	PERMIT REQUIREMENT						110	F			
pH	SAMPLE MEASUREMENT				6.4	6.5	6.7		0	10/31	GRAB
	PERMIT REQUIREMENT				6.0		9.0	SU			
OIL & GREASE	SAMPLE MEASUREMENT				N.D.	1.9	5.0		0	10/31	GRAB
	PERMIT REQUIREMENT				N/A	10	15	mg/L			
PHENOLS	SAMPLE MEASUREMENT				N.D.	.11	.25		0	10/31	GRAB
	PERMIT REQUIREMENT				N/A	.5	.7	mg/L			
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R. D. COLLINS, V.P.

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN. AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

A. S. RAMERER, PLANT MGR

SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE

503 286-3681

AREA
CODE

NUMBER

DATE

95 02 09

YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)

NAME KOPPERS INDUSTRIES, INC.

ADDRESS 7540 NW ST HELENS ROAD

PORTLAND, OR 97210

FACILITY NORTHWEST PLANT DEQ #47430

LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)

101003

PERMIT NUMBER

(17-19)

01

DISCHARGE NUMBER

Form Approved.

OMB No. 2040-0004.

Approval expires 6-30-91.

3077-J

47430

MONITORING PERIOD

FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	95	01	01		95	01	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) (46-53) QUANTITY OR LOADING (34-61)			(4 Card Only) (38-43) QUALITY OR CONCENTRATION (46-53) (34-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				UNITS
FLOW	SAMPLE MEASUREMENT	12,258		GPD					N/A	9/31	EST.
	PERMIT REQUIREMENT	N/A	N/A								
TEMPERATURE	SAMPLE MEASUREMENT				46	49	53		0	9/31	GRAB
	PERMIT REQUIREMENT						110				
pH	SAMPLE MEASUREMENT				6.4	6.5	6.7		0	9/31	GRAB
	PERMIT REQUIREMENT				6.0		9.0				
OIL & GREASE	SAMPLE MEASUREMENT				N.D.	1.6	4.0		0	9/31	GRAB
	PERMIT REQUIREMENT				N/A	10	15	mg/L			
PHENOLS	SAMPLE MEASUREMENT				N.D.	.11	.25		0	9/31	GRAB
	PERMIT REQUIREMENT				N/A	.5	.7	mg/L			
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED, AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE: 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE		DATE		
R. D. COLLINS, V.P. TYPED OR PRINTED		A. S. CAMERER, PLANT MGR SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	503	286-3681	95	02	02	

COMMENT AND EXPLANATION OF ANY VIOLATIONS: (Reference all attachments here)

MONTHLY NPDES DISCHARGE REPORT WORK SHEET

Amended 2/9/95

														MONTH		JANUARY		YEAR 95			
														FLOW							
	WWT-1		WWT-2		WWT-3		WWT-4		WWT-5		WWT-6		TOTAL		#DAYS IN		G.P.D.				
GLS. PER TANK	45,000		45,000		45,000		45,000		20,000		20,000				MONTH		DISCHARGE				
# OF PUMPINGS	11		11		11		11		1				9								
GALS. PUMPED	90,000		90,000		90,000		90,000		29,000				389,000		31		12,258				
			135,000				135,000						470,000				15,161				
														SAMPLE CONCENTRATION LEVELS							
TEMPERATURES	46	46	46	46	53	53	50	50	50	47	46							AVG.			
PH	6.6	6.5	6.7	6.6	6.5	6.4	6.5	6.6	6.5	6.5	6.5							MIN.			
OIL & GREASES	3	NO	3	NO	4	4	NO	NO	NO	5.0								MAX.			
PHENOLS	.07	.05	NO	NO	.25	.25	.11	.11	.11	.11								UNIT			
																		OF			
																		SU			
																		MGL			
																		MGL			
														QUARTERLY PAH TESTING							
														DATE SAMPLE TAKEN		RESULTS					
																(MUST BE LESS THAN 1000)					

MONTHLY NPDES DISCHARGE REPORT WORK SHEET

										MONTH <u>JANUARY</u> YEAR <u>95</u>			
										FLOW			
	WWT-1	WWT-2	WWT-3	WWT-4	WWT-5	WWT-6	TOTAL		#DAYS IN	G.P.D.			
GLS. PER TANK	45,000	45,000	45,000	45,000	20,000	20,000			MONTH	DISCHARGE			
# OF PUMPINGS	11	11	11	11	1		9						
GALS. PUMPED	90,000	90,000	90,000	90,000	20,000		380,000		31	12,258			
										SAMPLE CONCENTRATION LEVELS			
TEMPERATURES	46	46	46	46	53	53	50	50	50	AVG.	MIN.	MAX.	UNIT
PH	6.6	6.5	6.7	6.6	6.5	6.4	6.5	6.6	6.5	49	46	53	OF
OIL & GREASES	3.	ND	3.	ND	4.	4.	ND	ND	ND	6.5	6.4	6.7	SU
PHENOLS	.07	.05	ND	ND	.25	.25	.11	.11	.11	1.6	ND	4.0	MG/L
										.11	ND	.25	MG/L
										QUARTERLY PAH TESTING			
										DATE SAMPLE TAKEN <u>1/1</u>		RESULTS	
												(MUST BE LESS THAN 1000)	

1-12-95

WWT	PH	Temp
2	6.5	47°
4	6.5	46°

	PH	Temp
ww1	6.5	50
3	6.6	50
5	6.5	50
1-12-95		



Report Date: January 17, 1995
Job Number: 950113B
PO Number: None Provided
Project No: None Provided
Project Name: None Provided

Attention: John Oxford
Koppers Industry
7540 NW St. Helens Rd.
Portland, OR 97210-3663

Analytical Narrative

The samples were received on 01/13/95 by Coffey Laboratories, Inc. (CLI) Sample Reception personnel under strict chain of custody protocol. The following information was provided at the time of sample reception:

Laboratory Sample ID	Field Identification	Matrix	Collection Date	Collection Time
950113B-1	WWT 1,3,5 Composite	Waste Water	01/13/95	1000
950113B-2	WWT 2,4 Composite	Waste Water	01/13/95	1000

The recommended holding time for each batch of analyses was in accordance with the data quality objectives as specified in the CLI Quality Assurance Plan unless otherwise noted.

Acceptable precision and accuracy were achieved for all analyses associated with this work order as demonstrated by the recoveries of the quality control samples analyzed concurrently with each batch.

The data submitted in this report is for the sole and exclusive use of the above-named client. All samples associated with the work order will be retained a maximum of 15 days from the report date or until the maximum holding time expires. All results pertain only to samples submitted.

Thank you for allowing Coffey Laboratories to be of service to you. If you have questions or need further assistance, please do not hesitate to call our Customer Services Department.

Sincerely,

Rona A. Klueh
Technical Director

RAK/atc

COFFEY LABORATORIES, INC.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003640



Analytical Data

Koppers Industry

Job Number: 950113B

Page Number: 2 of 3

Lab Sample ID: 950113B-1

Field ID: WWT 1,3,5 Composite

Date/Time: 01/13/95 1000

Matrix: Waste Water

EPA Category: Conventional Parameters

Parameter	Method	Detection Limit	Analytical Result	Units	Analysis Date	Analyst
Oil & Grease	EPA 413.1	3.	16.	mg/L	01/16/95	WKK
Oil & Grease (Duplicate)	EPA 413.1	4.	ND	mg/L	01/20/95	WKK
Total Phenols	EPA 420.1	0.05	0.11	mg/L	01/13/95	SVS

The duplicate oil & grease analysis was performed on the CuPO4 preserved bottle.

COFFEY LABORATORIES, INC.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003641



Analytical Data

Koppers Industry

Job Number: 950113B

Page Number: 3 of 3

Lab Sample ID: 950113B-2

Field ID: WWT 2,4 Composite

Date/Time: 01/13/95 1000

Matrix: Waste Water

EPA Category: Conventional Parameters

<u>Parameter</u>	<u>Method</u>	<u>Detection Limit</u>	<u>Analytical Result</u>	<u>Units</u>	<u>Analysis Date</u>	<u>Analyst</u>
Oil & Grease	EPA 413.1	3.	5.	mg/L	01/16/95	WKK
Total Phenols	EPA 420.1	0.05	0.11	mg/L	01/13/95	SVS

COFFEY LABORATORIES, INC.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003642

RECEIVED

JAN 24 1995

**KOPPERS INDS., INC.
PORTLAND, OR**

	PN TEMP	PN
1	46	6.6
2	"	6.5
3	"	6.7
4	"	6.4

12-26-94
NOT REPAIRED IN DECEMBER BY
ERROR - REPAIRING IN JANUARY 95.

PORTLAND BRANCH
12423 NE Whitaker Way
Portland, OR 97230
(503) 254-1794 FAX: (503) 254-1452

COFFEY LABORATORIES, INC.
CHAIN OF CUSTODY AGREEMENT

PENDLETON BRANCH
287 SE First
Pendleton, OR 97801
(503) 276-0385

Report
Attention: Amos Kameron
Company
Name: Koppers Ind
Address: 2540 NW St. Helens RD.
Portland OR 97210-3663
Phone: (503) 286-3681 FAX: (503) 285-2831
Report Instructions:

Project
Name:
Project
Number:
PO Number:
Sample Turnaround Reporting Request
☐ Standard ☐ FAX (T-35)
☐ Priority (1.5x Std. Fee) ☐ Verbals (T-1157)
☒ Rush (2x Std. Fee) ☐ Extra Report Copy (T-1402)
(Fees Associated)
☐ Emergency (3x Std. Fee) Initials: _____

FOR LABORATORY USE ONLY Page _____ of _____
Job Number: W69412857
Custabbr: _____ ☐ NEW
☐ VISA ☐ M/C Expires: _____
Card #: _____
Cash / Check: \$ _____ #:
Billing Code: 1 2 3 4
QC LEVEL: 1 2 3 4
FEDX BUS COURIER UPS LAB CLIENT MAIL

Sample ID	Loc.	ID	Collection Date / Time	Media	Analysis Requested	Test/Profile
<u>WWT #1</u>			<u>12-27-94 3:00 PM</u>		<u>oil & grease</u>	
<u>WWT #2</u>			<u>" "</u>		<u>" "</u>	
<u>WWT #3</u>			<u>" "</u>		<u>" "</u>	
<u>WWT #4</u>			<u>" "</u>		<u>" "</u>	
<u>WWT #1</u>			<u>12-27-94 3:00 PM</u>		<u>PH-nolds</u>	
<u>" #2</u>			<u>" "</u>		<u>" "</u>	
<u>" #3</u>			<u>" "</u>		<u>" "</u>	
<u>" #4</u>			<u>" "</u>		<u>" "</u>	
Sample Comments:						

Sampled by: (Please Print) <u>Brad Harwood</u>	Relinquished by: (Please Sign) <u>Brad Harwood</u>	Date <u>12-28-94</u>	Time <u>10:45</u>	Received by: (Sign) <u>Cheryl Turner</u>	Date <u>12/28</u>	Time <u>10:45</u>
White Copy - Laboratory Copy	Yellow Copy - Client Copy					
SHADED AREAS FOR LABORATORY USE ONLY				LAB <u>Cheryl Turner</u>		

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO CLI WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THE CLIENT COPY.

Koppers003645

COFFEY LABORATORIES, INC.
CHAIN OF CUSTODY INSTRUCTIONS/CONDITIONS SHEET

INSTRUCTIONS

FOR LAB USE ONLY -	All shaded areas are for laboratory use only. <u>Please Do Not Write in These Areas.</u>
REPORT ATTENTION -	Name of the person who receives the laboratory report.
COMPANY NAME -	Name of the company or individual requesting the analysis.
REPORT ADDRESS -	Address of the company or individual requesting the analysis. (Address where report should be mailed)
REPORT INSTRUCTIONS -	A brief description of any special mail instructions, or address information pertaining to extra report copies.
PROJECT NAME -	Applies to customer project name. This data is provided at the customer's discretion.
PROJECT NUMBER -	Applies only to samples submitted by the customer. This data is provided at the customer's discretion.
FIELD ID -	A short description of the sample point (e.g., "Effluent from sand filter"). This description will appear on the report.
COLLECTION DATE -	The date on which the sample(s) was/were collected.
COLLECTION TIME -	The time at which the sample(s) was/were collected.
MEDIA -	This is a description of the sample media (e.g., drinking water, waste water, soil, etc.)
ANALYSIS REQUESTED -	Use one line for each analysis or group of analyses associated to a specific bottle.
SAMPLE COLLECTED BY -	The person who collected the sample(s) signs here.
RELINQUISHED BY -	The sampler signs this box when he/she gives the sample to someone else, and then fills in the date/time the sample left his/her possession.
RECEIVED BY -	The person who receives the sample(s) signs here and fills in the date/time received. The date and time should be same as "Relinquished by" unless the sample(s) was/were shipped.
JOB OR SAMPLE REMARKS -	General sample or job remarks.

CONDITIONS

PRICING AND CHARGES

Prices to be charged for work performed for CLIENT are those currently published in the Coffey Laboratories, Inc. (CLI) standard pricebook. CLIENT must notify CLI of price quotation at the time of the transfer of sample(s) to CLI. All submissions of samples with testing requirements to CLI will be understood to be an agreement for services. Any cancellation of testing requirements will result in charges being assessed on all testing completed prior to the notice of cancellation.

DELIVERY AND LIABILITY LIMITATIONS

CLI will analyze samples provided by CLIENT as requested by CLIENT in accordance with the procedures documented in the CLI Quality Assurance Plan (QAP). The maximum total liability assumed by CLI for work performed for CLIENT will in all cases be limited to the cost of the analysis. The specific format of the deliverable goods will be defined by CLIENT to CLI upon transfer of the samples to CLI. This warranty supersedes all other warranties.

CONFIDENTIALITY

CLI will use its best efforts to treat all information regarding work performed for CLIENT as proprietary and confidential to the maximum extent allowed by law. NO CLIENT information will be released without the written consent of the CLIENT billed for the work.

APPLICABLE LAW

Legal matters arising from work performed by CLI for CLIENT will be construed and interpreted in accordance with the laws for the state of Oregon.



Report Date: December 30, 1994
Job Number: 941228F
PO Number: Amos Kameroner
Project No: None Provided
Project Name: None Provided

Attention: Amos Kameroner
Koppers Industry
7540 NW St. Helens Rd.
Portland, OR 97210-3663

Analytical Narrative

The samples were received on 12/28/94 by Coffey Laboratories, Inc. (CLI) Sample Reception personnel under strict chain of custody protocol. The following information was provided at the time of sample reception:

Laboratory Sample ID	Field Identification	Matrix	Collection Date	Collection Time
941228F-1	WWT #1	Waste Water	12/27/94	1500
941228F-2	WWT #2	Waste Water	12/27/94	1500
941228F-3	WWT #3	Waste Water	12/27/94	1500
941228F-4	WWT #4	Waste Water	12/27/94	1500

The recommended holding time for each batch of analyses was in accordance with the data quality objectives as specified in the CLI Quality Assurance Plan unless otherwise noted.

Acceptable precision and accuracy were achieved for all analyses associated with this work order as demonstrated by the recoveries of the quality control samples analyzed concurrently with each batch.

The data submitted in this report is for the sole and exclusive use of the above-named client. All samples associated with the work order will be retained a maximum of 15 days from the report date or until the maximum holding time expires. All results pertain only to samples submitted.

Thank you for allowing Coffey Laboratories to be of service to you. If you have questions or need further assistance, please do not hesitate to call our Customer Services Department.

Sincerely,

Susan M. Coffey
President

SMC/atc

COFFEY LABORATORIES, INC.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003647



Analytical Data

Koppers Industry

Job Number: 941228F

Page Number: 2 of 5

Lab Sample ID: 941228F-1

Field ID: WWT #1

Date/Time: 12/27/94 1500

Matrix: Waste Water

EPA Category: Conventional Parameters

<u>Parameter</u>	<u>Method</u>	<u>Detection Limit</u>	<u>Analytical Result</u>	<u>Units</u>	<u>Analysis Date</u>	<u>Analyst</u>
Oil & Grease	EPA 413.1	3.	3.	mg/L	12/29/94	WKK
Total Phenols	EPA 420.1	0.05	0.07	mg/L	12/29/94	SVS

COFFEY LABORATORIES, INC.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003648



Analytical Data

Koppers Industry

Job Number: 941228F

Page Number: 3 of 5

Lab Sample ID: 941228F-2

Field ID: WWT #2

Date/Time: 12/27/94 1500

Matrix: Waste Water

EPA Category: Conventional Parameters

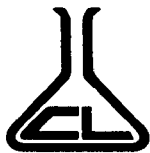
Parameter	Method	Detection Limit	Analytical Result	Units	Analysis Date	Analyst
Oil & Grease	EPA 413.1	3.	ND	mg/L	12/29/94	WKK
Total Phenols	EPA 420.1	0.05	0.05	mg/L	12/29/94	SVS

ND means none detected at or above the detection limit listed.

COFFEY LABORATORIES, INC.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003649



Koppers Industry

Analytical Data

Job Number: 941228F

Page Number: 4 of 5

Lab Sample ID: 941228F-3

Field ID: WWT #3

Date/Time: 12/27/94 1500

Matrix: Waste Water

EPA Category: Conventional Parameters

Parameter	Method	Detection Limit	Analytical Result	Units	Analysis Date	Analyst
Oil & Grease	EPA 413.1	3.	3.	mg/L	12/29/94	WKK
Total Phenols	EPA 420.1	0.05	ND	mg/L	12/29/94	SVS

ND means none detected at or above the detection limit listed.

COFFEY LABORATORIES, INC.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003650



Koppers Industry

Analytical Data

Job Number: 941228F
Page Number: 5 of 5

Lab Sample ID: 941228F-4
Field ID: WWT #4
Date/Time: 12/27/94 1500
Matrix: Waste Water

EPA Category: Conventional Parameters

<u>Parameter</u>	<u>Method</u>	<u>Detection Limit</u>	<u>Analytical Result</u>	<u>Units</u>	<u>Analysis Date</u>	<u>Analyst</u>
Oil & Grease	EPA 413.1	3.	ND	mg/L	12/29/94	WKK
Total Phenols	EPA 420.1	0.05	ND	mg/L	12/29/94	SVS

ND means none detected at or above the detection limit listed.

COFFEY LABORATORIES, INC.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003651

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JAN 03 1995

**KOPPERS INDS., INC.
PORTLAND, OR**

January 12, 1995

Amos S. Kameron
Koppers Industries Inc.
7540 N.W. St. Helens Rd.
Portland, OR 97210

Dear Sir,

On January 9, 1995 I came in at 6:30 a.m. to start plant operations. Upon doing a full-plant walk through inspection. I found the lower tank farm flooding, all waste water tanks overflowing and rain still falling.

If this situation continues, we are in danger of losing pumps and equipment and a possible shutdown of operations. I started pumping the overflow of rainwater directly to the plant outfall. At this time, we also sampled all waste water tanks and requested rush analysis.

Sincerely,



T.J. Turner
General Foreman

TJT:crt

1-27-95 P14 Temp

WWT2 6.5 53°

WWT4 6.4 53°

PORTLAND BRANCH
12423 NE Whitaker Way
Portland, OR 97230
(503) 254-1794 FAX: (503) 254-1452

COFFEY LABORATORIES, INC.
CHAIN OF CUSTODY AGREEMENT

PENDLETON BRANCH
287 SE First
Pendleton, OR 97801
(503) 276-0385

Report
Attention: AMOS KAMMERER
Company
Name: KOPPERS INC
Address: 2540 NW ST. HELENS RD.
PORTLAND, OR, 97210-3663
Phone: (503) 286-3681 FAX: (503) 285-2831
Report Instructions:

Project
Name:
Project
Number:
PO Number:
Sample Turnaround
☐ Standard
☐ Priority (1.5x Std. Fee)
☐ Rush (2x Std. Fee)
☐ Emergency (3x Std. Fee)
Reporting Request
☐ FAX (T-35)
☐ Verbals (T-1157)
☐ Extra Report Copy (T-1402)
(Fees Associated)
Initials: _____

FOR LABORATORY USE ONLY Page _____ of _____
Job Number: WF 98027-AC
Custabbr: KOPPERS ☐ NEW
☐ VISA ☐ M/C Expires: _____
Card #: _____
Cash / Check: \$ _____ #:
Billing Code: 1 2 3 4
QC LEVEL: 1 2 3 4
FEDX BUS COURIER UPS LAB CLIENT MAIL

Sample ID	Loc.	ID	Collection Date / Time	Media	Analysis Requested	Test/Profile
<u>WWT 2, 4</u>			<u>1-27-95 3:00 PM</u>		<u>Oil & Grease</u>	
<u>WWT 2, 4</u>			<u>1-27-95 3:00 PM</u>		<u>PHENOLS</u>	
Sample Comments:						

Sampled by: (Please Print)	Relinquished by: (Please Sign)	Date	Time	Received by: (Sign)	Date	Time
<u>Brian Narwood</u>	<u>Brad Narwood</u>	<u>1-27-95</u>	<u>3:30 PM</u>	<u>Eldon Faber</u>	<u>1-27-95</u>	<u>3:20</u>
White Copy - Laboratory Copy	<u>Eldon Faber</u>	<u>1-27-95</u>	<u>4:00 PM</u>			
Yellow Copy - Client Copy				LAB <u>Wm</u>	<u>1/27/95</u>	<u>1:00</u>

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO CLI WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THE CLIENT COPY.

COFFEY LABORATORIES, INC.
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REPORT ADDRESS -	Address of the company or individual requesting the analysis. (Address where report should be mailed)
REPORT INSTRUCTIONS -	A brief description of any special mail instructions, or address information pertaining to extra report copies.
PROJECT NAME -	Applies to customer project name. This data is provided at the customer's discretion.
PROJECT NUMBER -	Applies only to samples submitted by the customer. This data is provided at the customer's discretion.
FIELD ID -	A short description of the sample point (e.g., "Effluent from sand filter"). This description will appear on the report.
COLLECTION DATE -	The date on which the sample(s) was/were collected.
COLLECTION TIME -	The time at which the sample(s) was/were collected.
MEDIA -	This is a description of the sample media (e.g., drinking water, waste water, soil, etc.).
ANALYSIS REQUESTED -	Use one line for each analysis or group of analyses associated to a specific bottle.
SAMPLE COLLECTED BY -	The person who collected the sample(s) signs here.
RELINQUISHED BY -	The sampler signs this box when he/she gives the sample to someone else, and then fills in the date/time the sample left his/her possession.
RECEIVED BY -	The person who receives the sample(s) signs here and fills in the date/time received. The date and time should be same as "Relinquished by" unless the sample(s) was/were shipped.
JOB OR SAMPLE REMARKS -	General sample or job remarks.

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CONFIDENTIALITY

CLI will use its best efforts to treat all information regarding work performed for CLIENT as proprietary and confidential to the maximum extent allowed by law. NO CLIENT information will be released without the written consent of the CLIENT billed for the work.

APPLICABLE LAW

Legal matters arising from work performed by CLI for CLIENT will be construed and interpreted in accordance with the laws for the state of Oregon.



DOC ID: 0:\Clim\Port.BRN\OFFSUPP.SEC\Forms\Fax.LOG
Revision #: 1.03
Revision Date: 09/06/94

FACSIMILE TRANSMITTAL LOG

TO: Company Name: Koppers Date: 1/31
Attention: T.J.
FAX #: () 285-2831 Confirmation #: ()

of Pages (Including Cover Sheets): 1

TELECOPIER PHONE #: (503) 254-1452

CONFIRMATION PHONE #: (503) 254-1794

THIS COMMUNICATION CONSISTS OF PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT, OR THE EMPLOYEE OR AGENT RESPONSIBLE TO DELIVER IT TO THE INTENDED RECIPIENT, YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE IMMEDIATELY NOTIFY US BY TELEPHONE AND RETURN THE ORIGINAL MESSAGE TO US AT THE BELOW ADDRESS VIA THE U.S. POSTAL SERVICE. THANK YOU.

COMMENTS: Results for: WWT 2,4 Composite (127)
Phenols: 0.25 mg/L
Oil & Grease: 4 mg/L

Richard D. Reid
Customer Services Director

COFFEY LABORATORIES, INC.

10:16 No.009 P.01

Jan 31, 95

TEL:

Koppers003657



Report Date: January 31, 1995
Job Number: 950127AC
PO Number: Amos Kamerer
Project No: None Provided
Project Name: None Provided

Attention: Amos Kamerer
Koppers Industry
7540 NW St. Helens Rd.
Portland, OR 97210-3663

Analytical Narrative

The sample was received on 01/27/95 by Coffey Laboratories, Inc. (CLI) Sample Reception personnel under strict chain of custody protocol. The following information was provided at the time of sample reception:

Laboratory Sample ID	Field Identification	Matrix	Collection Date	Collection Time
950127AC-1	WWT 2,4 Composite	Waste Water	01/27/95	1500

The recommended holding time for each batch of analyses was in accordance with the data quality objectives as specified in the CLI Quality Assurance Plan unless otherwise noted.

Acceptable precision and accuracy were achieved for all analyses associated with this work order as demonstrated by the recoveries of the quality control samples analyzed concurrently with each batch.

The data submitted in this report is for the sole and exclusive use of the above-named client. All samples associated with the work order will be retained a maximum of 15 days from the report date or until the maximum holding time expires. All results pertain only to samples submitted.

Thank you for allowing Coffey Laboratories to be of service to you. If you have questions or need further assistance, please do not hesitate to call our Customer Services Department.

Sincerely,

Rona A. Klueh
Technical Director

RAK/atc

RECEIVED

FEB - 3 1995

**KOPPERS INDS., INC.
PORTLAND, OR**

COFFEY LABORATORIES, INC.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003658



Analytical Data

Koppers Industry

Job Number: 950127AC

Page Number: 2 of 2

Lab Sample ID: 950127AC-1

Field ID: WWT 2,4 Composite

Date/Time: 01/27/95 1500

Matrix: Waste Water

EPA Category: Conventional Parameters

<u>Parameter</u>	<u>Method</u>	<u>Detection Limit</u>	<u>Analytical Result</u>	<u>Units</u>	<u>Analysis Date</u>	<u>Analyst</u>
Oil & Grease	EPA 413.1	3.	4.	mg/L	01/31/95	WKK
Total Phenols	EPA 420.1	0.05	0.25	mg/L	01/30/95	SVS

RECEIVED

FEB - 3 1995

**KOPPERS INDS., INC.
PORTLAND, OR**

COFFEY LABORATORIES, INC.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003659

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME KOPPERS INDUSTRIES, INC.

ADDRESS 7540 NW ST HELENS ROAD
PORTLAND, OR 97210

FACILITY NORTHWEST PLANT DEQ #47430

LOCATION MULTNOMAH COUNTY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

101003

PERMIT NUMBER

03

DISCHARGE NUMBER

3077-J
47430

Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

MONITORING PERIOD

FROM

YEAR MO DAY
95 03 01

TO

YEAR MO DAY
95 03 31

(20-21) (22-23) (24-25)

(26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		(3 Card Only) (46-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)	
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS				
FLOW	SAMPLE MEASUREMENT	14,194								N/A	12/31	EST.
	PERMIT REQUIREMENT	N/A	N/A									
TEMPERATURE	SAMPLE MEASUREMENT				51	53	55		0	12/31	GRAB	
	PERMIT REQUIREMENT						110	°F				
pH	SAMPLE MEASUREMENT				6.5	6.7	6.7		0	12/31	GRAB	
	PERMIT REQUIREMENT				6.0		9.0	SU				
OIL & GREASES	SAMPLE MEASUREMENT				N.D.	3.3	6.0		0	12/31	GRAB	
	PERMIT REQUIREMENT				N/A	10	15	mg/L				
PHENOLS	SAMPLE MEASUREMENT				N.D.	.06	.16		0	12/31	GRAB	
	PERMIT REQUIREMENT				N/A	.5	.7	mg/L				
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											
	SAMPLE MEASUREMENT											
	PERMIT REQUIREMENT											

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	A. S. KAMERER, PLANT MGR SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE		DATE		
R. D. COLLINS, V.P. TYPED OR PRINTED			503 AREA CODE	286-3681 NUMBER	95 YEAR	04 MO	03 DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

MONTHLY NPDES DISCHARGE REPORT WORK SHEET

														MONTH		<u>MARCH</u>		YEAR		<u>98</u>			
														FLOW									
		WWT-1		WWT-2		WWT-3		WWT-4		WWT-5		WWT-6		TOTAL		#DAYS IN		G.P.D.					
GLS. PER TANK		45,000		45,000		45,000		45,000		20,000		20,000				M O N T H		DISCHARGE					
# OF PUMPINGS		11		11		11		11		11		11		12		31							
GALS. PUMPED		90,000		90,000		90,000		90,000		40,000		40,000		440,000				14,194					
														SAMPLE CONCENTRATION LEVELS									
TEMPERATURES		51	52	54	55													AVG.	MIN.	MAX.	UNIT		
PH		6.7	6.7	6.5	6.7													5.3	5.1	5.5	OF		
OIL & GREASES		6	ND	4.0	3.0													6.7	6.5	6.7	SU		
PHENOLS		.16	ND	.10	.05													3.3	ND	6.0	MG/L		
																		.06	ND	.16	MG/L		
														QUARTERLY PAH TESTING									
		DATE SAMPLE TAKEN		<u>1</u>		<u>1</u>												RESULTS					
																				(MUST BE LESS THAN 1000)			

3-20-95

		PH	Temp
1	C	6.5	54
3			
5			
	m	6.5	54
2	P	6.7	55
4			
6			
	O	6.7	55
	S	6.7	55
	T	6.7	55
	T ₂		

WWT's

(503) 254-1794 FAX: (503) 254-1452

(503) 276-0385

Report
Attention: AMOS KAMMERER
Company
Name: KOPPERS
Address: 7540 NW STEVENS RD.
PORTLAND OR 97210-3663
Phone: (503) 286-3861 FAX: (503) 285-2831
Report Instructions:

Project Name: _____	
Project Number: _____	
PO Number: _____	
Sample Turnaround <input type="checkbox"/> Standard <input type="checkbox"/> Priority (1.5x Std. Fee) <input checked="" type="checkbox"/> Rush (2x Std. Fee) <input type="checkbox"/> Emergency (3x Std. Fee)	Reporting Request <input type="checkbox"/> FAX (T-35) <input type="checkbox"/> Verbals (T-1157) <input type="checkbox"/> Extra Report Copy (T-1402) (Fees Associated) Initials: _____

FOR LABORATORY USE ONLY Page _____ of _____

Job Number: WG950320-I

Custabbr: _____ ☐ NEW

☐ VISA ☐ M/C Expires: _____

Card #: _____

Cash / Check: \$ _____ #:

Billing Code: 1 2 3 4

QC LEVEL: 1 2 3 4

FEDX BUS COURIER UPS LAB CLIENT MAIL

[illegible]

Sampled by: (Please Print)	Relinquished by: (Please Sign)	Date	Time	Received by: (Sign)	Date	Time
Brad Harwood	Brad Harwood	3-20-95	10:10	Kean Z. W. [Signature]	3:20:95	10:10
White Copy - Laboratory Copy Yellow Copy - Client Copy	Kean Z. W. [Signature]	3/20/95	10:50	Cynthia B. [Signature]	3/20/95	10:40
SHADED AREAS FOR LABORATORY USE ONLY				LAB		

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO CLI WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THE CLIENT COPY.

Koppers003663

COFFEY LABORATORIES, INC.
CHAIN OF CUSTODY INSTRUCTIONS/CONDITIONS SHEET

INSTRUCTIONS

FOR LAB USE ONLY -	All shaded areas are for laboratory use only. <u>Please Do Not Write in These Areas.</u>
REPORT ATTENTION -	Name of the person who receives the laboratory report.
COMPANY NAME -	Name of the company or individual requesting the analysis.
REPORT ADDRESS -	Address of the company or individual requesting the analysis. (Address where report should be mailed)
REPORT INSTRUCTIONS -	A brief description of any special mail instructions, or address information pertaining to extra report copies.
PROJECT NAME -	Applies to customer project name. This data is provided at the customer's discretion.
PROJECT NUMBER -	Applies only to samples submitted by the customer. This data is provided at the customer's discretion.
FIELD ID -	A short description of the sample point (e.g., "Effluent from sand filter"). This description will appear on the report.
COLLECTION DATE -	The date on which the sample(s) was/were collected.
COLLECTION TIME -	The time at which the sample(s) was/were collected.
MEDIA -	This is a description of the sample media (e.g., drinking water, waste water, soil, etc.)
ANALYSIS REQUESTED -	Use one line for each analysis or group of analyses associated to a specific bottle.
SAMPLE COLLECTED BY -	The person who collected the sample(s) signs here.
RELINQUISHED BY -	The sampler signs this box when he/she gives the sample to someone else, and then fills in the date/time the sample left his/her possession.
RECEIVED BY -	The person who receives the sample(s) signs here and fills in the date/time received. The date and time should be same as "Relinquished by" unless the sample(s) was/were shipped.
JOB OR SAMPLE REMARKS -	General sample or job remarks.

CONDITIONS

PRICING AND CHARGES

Prices to be charged for work performed for CLIENT are those currently published in the Coffey Laboratories, Inc. (CLI) standard pricebook. CLIENT must notify CLI of price quotation at the time of the transfer of sample(s) to CLI. All submissions of samples with testing requirements to CLI will be understood to be an agreement for services. Any cancellation of testing requirements will result in charges being assessed on all testing completed prior to the notice of cancellation.

DELIVERY AND LIABILITY LIMITATIONS

CLI will analyze samples provided by CLIENT as requested by CLIENT in accordance with the procedures documented in the CLI Quality Assurance Plan (QAP). The maximum total liability assumed by CLI for work performed for CLIENT will in all cases be limited to the cost of the analysis. The specific format of the deliverable goods will be defined by CLIENT to CLI upon transfer of the samples to CLI. This warranty supersedes all other warranties.

CONFIDENTIALITY

CLI will use its best efforts to treat all information regarding work performed for CLIENT as proprietary and confidential to the maximum extent allowed by law. NO CLIENT information will be released without the written consent of the CLIENT billed for the work.

APPLICABLE LAW

Legal matters arising from work performed by CLI for CLIENT will be construed and interpreted in accordance with the laws for the state of Oregon.



Report Date: March 22, 1995
Job Number: 950320I
PO Number: None
Project No: None Provided
Project Name: None Provided

Amos Kamerer
Koppers Industry
7540 NW St. Helens Rd.
Portland, OR 97210

Analytical Narrative

The samples were received on 03/20/95 by Coffey Laboratories, Inc. (CLI) Sample Reception personnel under strict chain of custody protocol. The following information was provided at the time of sample reception:

Laboratory Sample ID	Field Identification	Matrix	Collection Date	Collection Time
950320I-1	WWT 2,4,6	Waste Water	03/20/95	0945
950320I-2	WWT 1,3,5	Waste Water	03/20/95	0945

The recommended holding time for each batch of analyses was in accordance with the data quality objectives as specified in the CLI Quality Assurance Plan unless otherwise noted.

Acceptable precision and accuracy were achieved for all analyses associated with this work order as demonstrated by the recoveries of the quality control samples analyzed concurrently with each batch.

The data submitted in this report is for the sole and exclusive use of the above-named client. All samples associated with the work order will be retained a maximum of 15 days from the report date or until the maximum holding time expires. All results pertain only to samples submitted.

Thank you for allowing Coffey Laboratories to be of service to you. If you have questions or need further assistance, please do not hesitate to call our Customer Services Department.

Sincerely,

Rona A. Klueh
Technical Director

RAK/atc

COFFEY LABORATORIES, INC.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003665



Analytical Data

Koppers Industry

Job Number: 950320I
Page Number: 2 of 3

Lab Sample ID: 950320I-1
Field ID: WWT 2,4,6
Date/Time: 03/20/95 0945
Matrix: Waste Water

EPA Category: Conventional Parameters

<u>Parameter</u>	<u>Method</u>	<u>Detection Limit</u>	<u>Analytical Result</u>	<u>Units</u>	<u>Analysis Date</u>	<u>Analyst</u>
Oil & Grease	EPA 413.1	3.	4.	mg/L	03/20/95	SSS
Total Phenols	EPA 420.1	0.05	0.10	mg/L	03/20/95	SVS

COFFEY LABORATORIES, INC.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003666



Analytical Data

Koppers Industry

Job Number: 950320I

Page Number: 3 of 3

Lab Sample ID: 950320I-2

Field ID: WWT 1,3,5

Date/Time: 03/20/95 0945

Matrix: Waste Water

EPA Category: Conventional Parameters

Parameter	Method	Detection Limit	Analytical Result	Units	Analysis Date	Analyst
Oil & Grease	EPA 413.1	3.	7.	mg/L	03/20/95	SSS
Total Phenols	EPA 420.1	0.05	0.06	mg/L	03/20/95	SVS

COFFEY LABORATORIES, INC.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003667

RECEIVED

MAR 28 1995

**KOPPERS INDS., INC.
PORTLAND, OR**

3 / 9 / 95

T 2-4-6

52° F

pH 6.7

PORTLAND BRANCH

12423 NE Whitaker Way

Portland, OR 97230

(503) 254-1794 FAX: (503) 254-1452

COFFEY LABORATORIES, INC.**CHAIN OF CUSTODY AGREEMENT****PENDLETON BRANCH**

287 SE First

Pendleton, OR 97801

(503) 276-0385

Report
Attention: Amos Kameron
Company
Name: Koppers Industries Inc.
Address: 7540 NW St Helens Road
Portland, OR 97210
Phone: (503) 286-3681 FAX: (503) 285-2831
Report Instructions:

Project
Name: _____
Project
Number: _____
PO Number: _____
Sample Turnaround Reporting Request
☐ Standard ☐ FAX (T-35)
☐ Priority (1.5x Std. Fee) ☐ Verbals (T-1157)
☒ Rush (2x Std. Fee) ☐ Extra Report Copy (T-1402)
(Fees Associated)
☐ Emergency (3x Std. Fee) Initials: _____

FOR LABORATORY USE ONLY Page _____ of _____
Job Number: W6950309-D
Custabbr: _____ ☐ NEW
☐ VISA ☐ M/C Expires: _____
Card #: _____
Cash / Check: \$ _____ # _____
Billing Code: 1 2 3 4
QC LEVEL: 1 2 3 4
FEDX BUS COURIER UPS LAB CLIENT MAIL

Sample ID	Loc.	ID	Collection Date / Time	Media	Analysis Requested	Test/Profile
WWT 2-4-6 composite			3/9/95 8:30	CuPO ₄	phenols	
WWT 2-4-6 composite			3/9/95 8:30	HCl	oil and grease	
Sample Comments:						

Sampled by: (Please Print) <u>Chris T. Sobiech</u>	Relinquished by: (Please Sign) <u>[Signature]</u>	Date <u>3-9-95</u>	Time <u>9:15</u>	Received by: (Sign) <u>[Signature]</u>	Date <u>3/9/95</u>	Time <u>9:15</u>
White Copy - Laboratory Copy	Yellow Copy - Client Copy			LAB		

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO CLI WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THE CLIENT COPY.

COFFEY LABORATORIES, INC.
CHAIN OF CUSTODY INSTRUCTIONS/CONDITIONS SHEET

INSTRUCTIONS

FOR LAB USE ONLY -	All shaded areas are for laboratory use only. <u>Please Do Not Write in These Areas.</u>
REPORT ATTENTION -	Name of the person who receives the laboratory report.
COMPANY NAME -	Name of the company or individual requesting the analysis.
REPORT ADDRESS -	Address of the company or individual requesting the analysis. (Address where report should be mailed)
REPORT INSTRUCTIONS -	A brief description of any special mail instructions, or address information pertaining to extra report copies.
PROJECT NAME -	Applies to customer project name. This data is provided at the customer's discretion.
PROJECT NUMBER -	Applies only to samples submitted by the customer. This data is provided at the customer's discretion.
FIELD ID -	A short description of the sample point (e.g., "Effluent from sand filter"). This description will appear on the report.
COLLECTION DATE -	The date on which the sample(s) was/were collected.
COLLECTION TIME -	The time at which the sample(s) was/were collected.
MEDIA -	This is a description of the sample media (e.g., drinking water, waste water, soil, etc.)
ANALYSIS REQUESTED -	Use one line for each analysis or group of analyses associated to a specific bottle.
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RECEIVED BY -	The person who receives the sample(s) signs here and fills in the date/time received. The date and time should be same as "Relinquished by" unless the sample(s) was/were shipped.
JOB OR SAMPLE REMARKS -	General sample or job remarks.

CONDITIONS

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CONFIDENTIALITY

CLI will use its best efforts to treat all information regarding work performed for CLIENT as proprietary and confidential to the maximum extent allowed by law. NO CLIENT information will be released without the written consent of the CLIENT billed for the work.

APPLICABLE LAW

Legal matters arising from work performed by CLI for CLIENT will be construed and interpreted in accordance with the laws for the state of Oregon.



Report Date: March 14, 1995
Job Number: 950309D
PO Number: Verbal - Amos Kamerer
Project No: None Provided
Project Name: None Provided

Amos Kamerer
Koppers Industry
7540 NW St. Helens Rd.
Portland, OR 97210

Analytical Narrative

The sample was received on 03/09/95 by Coffey Laboratories, Inc. (CLI) Sample Reception personnel under strict chain of custody protocol. The following information was provided at the time of sample reception:

Laboratory Sample ID	Field Identification	Matrix	Collection Date	Collection Time
950309D-1	WWT 2-4-6 Composite	Waste Water	03/09/95	0830

The recommended holding time for each batch of analyses was in accordance with the data quality objectives as specified in the CLI Quality Assurance Plan unless otherwise noted.

Acceptable precision and accuracy were achieved for all analyses associated with this work order as demonstrated by the recoveries of the quality control samples analyzed concurrently with each batch.

The data submitted in this report is for the sole and exclusive use of the above-named client. All samples associated with the work order will be retained a maximum of 15 days from the report date or until the maximum holding time expires. All results pertain only to samples submitted.

Thank you for allowing Coffey Laboratories to be of service to you. If you have questions or need further assistance, please do not hesitate to call our Customer Services Department.

Sincerely,

Rona A. Klueh
Technical Director

RAK/atc

COFFEY LABORATORIES, INC.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003672



Analytical Data

Koppers Industry

Job Number: 950309D

Page Number: 2 of 2

Lab Sample ID: 950309D-1

Field ID: WWT 2-4-6 Composite

Date/Time: 03/09/95 0830

Matrix: Waste Water

EPA Category: Conventional Parameters

Parameter	Method	Detection Limit	Analytical Result	Units	Analysis Date	Analyst
Oil & Grease	EPA 413.1	3.	ND	mg/L	03/09/95	SSS
Total Phenols	EPA 420.1	0.05	ND	mg/L	03/10/95	SVS

ND means none detected at or above the detection limit listed.

COFFEY LABORATORIES, INC.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003673

RECEIVED

MAR 16 1995

**KOPPERS INDS., INC.
PORTLAND, OR**

~~KRCS10~~

3/8/95

51°F

pH 6.7

T 1-3-S

PORTLAND BRANCH
12423 NE Whitaker Way
Portland, OR 97230
(503) 254-1794 FAX: (503) 254-1452

COFFEY LABORATORIES, INC.
CHAIN OF CUSTODY AGREEMENT

PENDLETON BRANCH
287 SE First
Pendleton, OR 97801
(503) 276-0385

Report
Attention: Amos Kameron
Company Name: Koppers Industries Inc
Address: 7540 NW St Helens Rd
Portland OR 97245
Phone: (503) 286-3681 FAX: (503) 285-2831
Report Instructions:

Project Name: _____
Project Number: _____
PO Number: _____
Sample Turnaround Reporting Request
☐ Standard ☐ FAX (T-35)
☐ Priority (1.5x Std. Fee) ☐ Verbals (T-1157)
☒ Rush (2x Std. Fee) ☐ Extra Report Copy (T-1402)
(Fees Associated)
☐ Emergency (3x Std. Fee) Initials: _____

FOR LABORATORY USE ONLY Page _____ of _____
Job Number: WG950308-D
Custab: _____
☐ VISA ☐ M/C Expires: _____
Card #: _____
Cash / Check: \$ _____ # _____
Billing Code: 1 2 3 4
QC LEVEL: 1 2 3 4
FEDX BUS COURIER UPS LAB CLIENT MAIL

Sample ID	Loc.	ID	Collection Date / Time	Media	Analysis Requested	Test/Profile
WWT 1, 3, 5 composite			3/8/95 8:15		Oil & Grease	
WWT 1, 3, 5 composite			3/8/95 8:15		Phenols	
Sample Comments:						

Sampled by: (Please Print)	Relinquished by: (Please Sign)	Date	Time	Received by: (Sign)	Date	Time
<u>TJ TURNER</u>	<u>[Signature]</u>	<u>3-8-95</u>	<u>8:30</u>	<u>[Signature]</u>	<u>3-8-95</u>	<u>8:30</u>
SHADED AREAS FOR LABORATORY USE ONLY		<u>3-8-95</u>	<u>9:05</u>	<u>[Signature]</u>	<u>3-8-95</u>	<u>9:05</u>

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO CLI WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THE CLIENT COPY.

COFFEY LABORATORIES, INC.
CHAIN OF CUSTODY INSTRUCTIONS/CONDITIONS SHEET

INSTRUCTIONS

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REPORT ATTENTION -	Name of the person who receives the laboratory report.
COMPANY NAME -	Name of the company or individual requesting the analysis.
REPORT ADDRESS -	Address of the company or individual requesting the analysis. (Address where report should be mailed)
REPORT INSTRUCTIONS -	A brief description of any special mail instructions, or address information pertaining to extra report copies.
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PROJECT NUMBER -	Applies only to samples submitted by the customer. This data is provided at the customer's discretion.
FIELD ID -	A short description of the sample point (e.g., "Effluent from sand filter"). This description will appear on the report.
COLLECTION DATE -	The date on which the sample(s) was/were collected.
COLLECTION TIME -	The time at which the sample(s) was/were collected.
MEDIA -	This is a description of the sample media (e.g., drinking water, waste water, soil, etc.)
ANALYSIS REQUESTED -	Use one line for each analysis or group of analyses associated to a specific bottle.
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RELINQUISHED BY -	The sampler signs this box when he/she gives the sample to someone else, and then fills in the date/time the sample left his/her possession.
RECEIVED BY -	The person who receives the sample(s) signs here and fills in the date/time received. The date and time should be same as "Relinquished by" unless the sample(s) was/were shipped.
JOB OR SAMPLE REMARKS -	General sample or job remarks.

CONDITIONS

PRICING AND CHARGES

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CONFIDENTIALITY

CLI will use its best efforts to treat all information regarding work performed for CLIENT as proprietary and confidential to the maximum extent allowed by law. NO CLIENT information will be released without the written consent of the CLIENT billed for the work.

APPLICABLE LAW

Legal matters arising from work performed by CLI for CLIENT will be construed and interpreted in accordance with the laws for the state of Oregon.



Report Date: March 10, 1995
Job Number: 950308D
PO Number: Verbal - Amos Kamerer
Project No: None Provided
Project Name: None Provided

Amos Kamerer
Koppers Industry
7540 NW St. Helens Rd.
Portland, OR 97210

Analytical Narrative

The sample was received on 03/08/95 by Coffey Laboratories, Inc. (CLI) Sample Reception personnel under strict chain of custody protocol. The following information was provided at the time of sample reception:

Laboratory Sample ID	Field Identification	Matrix	Collection Date	Collection Time
950308D-1	WWT 1,3,5 Composite	Waste Water	03/08/95	0815

The recommended holding time for each batch of analyses was in accordance with the data quality objectives as specified in the CLI Quality Assurance Plan unless otherwise noted.

Acceptable precision and accuracy were achieved for all analyses associated with this work order as demonstrated by the recoveries of the quality control samples analyzed concurrently with each batch.

The data submitted in this report is for the sole and exclusive use of the above-named client. All samples associated with the work order will be retained a maximum of 15 days from the report date or until the maximum holding time expires. All results pertain only to samples submitted.

Thank you for allowing Coffey Laboratories to be of service to you. If you have questions or need further assistance, please do not hesitate to call our Customer Services Department.

Sincerely,

Rona A. Klueh
Technical Director

RAK/atc

COFFEY LABORATORIES, INC.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003678



Analytical Data

Koppers Industry

Job Number: 950308D

Page Number: 2 of 2

Lab Sample ID: 950308D-1

Field ID: WWT 1,3,5 Composite

Date/Time: 03/08/95 0815

Matrix: Waste Water

EPA Category: Conventional Parameters

Parameter	Method	Detection Limit	Analytical Result	Units	Analysis Date	Analyst
Oil & Grease	EPA 413.1	3.	6.	mg/L	03/08/95	SSS
Total Phenols	EPA 420.1	0.05	0.16	mg/L	03/08/95	SVS

COFFEY LABORATORIES, INC.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003679

RECEIVED

MAR 15 1995

**KOPPERS INDS., INC.
PORTLAND, OR**

8 March, 1995

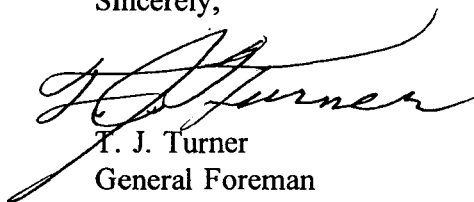
Amos S. Kamerer, Plant Manager
Koppers Industries, Inc.
7540 NW St Helens Road
Portland, OR 97210

Dear Sir:

On March 8, 1995 at 4:00 p.m. I did a walk through of plant operations. I found the lower tank farm flooding, all waste water tanks overflowing, and rain still falling.

If this situation continues, we are in danger of losing pumps and equipment, and a possible shut-down of operations. We started pumping the overflow of rainwater directly to the plant outfall. We at this time also sampled all waste water tanks and requested rush analysis.

Sincerely,



T. J. Turner
General Foreman

PERMITTEE NAME/ADDRESS (Include
Facility Name/Location if different)

NAME Koppers Industries, Inc.

ADDRESS 7540 NW St Helens Road

Portland, OR 97210

FACILITY Northwest Plant DEQ #47430

LOCATION Multnomah County

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

(2-16)

(17-19)

101003

11

PERMIT NUMBER

DISCHARGE NUMBER

3077-j

47430

Form Approved.

OMB No. 2040-0004

Approval expires 10-31-94

MONITORING PERIOD

FROM

YEAR MO DAY
95 11 01
(20-21) (22-23) (24-25)

TO

YEAR MO DAY
95 11 30
(26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) (46-53) QUANTITY OR LOADING (54-61)			(4 Card Only) (38-43) QUALITY OR CONCENTRATION (46-53) (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
Flow	SAMPLE MEASUREMENT	8,000		GPD					n/a	9/30	est.
	PERMIT REQUIREMENT										
Temperature	SAMPLE MEASUREMENT				53	55	58	° F	0	9/30	grab
	PERMIT REQUIREMENT						110				
pH	SAMPLE MEASUREMENT				6.2	6.3	6.4	SU	0	9/30	grab
	PERMIT REQUIREMENT				6.0		9.0				
Oil & Grease	SAMPLE MEASUREMENT				n.d.	2.3	4.0	mg/L	0	9/30	grab
	PERMIT REQUIREMENT				n/a	10	15				
Phenols	SAMPLE MEASUREMENT				n.d.	n.d.	n.d.	mg/L	0	9/30	grab
	PERMIT REQUIREMENT				n/a	0.5	0.7				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

R. D. Collins, V.P.

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

Amos S. Kamerer, Plant Mgr

SIGNATURE OF PRINCIPAL EXECUTIVE
OFFICER OR AUTHORIZED AGENT

TELEPHONE

503 286-3681

DATE

95 12 05

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

MONTHLY NPDES DISCHARGE REPORT WORK SHEET

														MONTH	NOV.	YEAR	95					
														FLOW								
	WWT-1	WWT-2	WWT-3	WWT-4	WWT-5	WWT-6	TOTAL					#DAYS IN	G.P.D.									
GLS. PER TANK	45,000	45,000	45,000	45,000	20,000	20,000						M O N T H	DISCHARGE									
# OF PUMPINGS	11	1	11	1	11	1	9															
GALS.PUMPED	90,000	45,000	90,000	45,000	40,000	20,000	240,000					30	8,000									
														SAMPLE CONCENTRATION LEVELS								
TEMPERATURES	54	58	53												AVG.	MIN.	MAX.	UNIT				
PH	6.3	6.4	6.2												5.5	5.3	5.8	OF				
OIL & GREASES	ND	4.0	3.0												6.3	6.2	6.4	SU				
PHENOLS	ND	ND	ND												2.3	ND	4.0	MG/L				
														QUARTERLY PAH TESTING								
														DATE SAMPLE TAKEN				1	1	RESULTS		
																		(MUST BE LESS THAN 1000)				



Report Date: December 1, 1995
Job Number: 951127AF
PO Number: Amos Kamerer
Project No: None Provided
Project Name: None Provided

Amos Kamerer
Koppers Industry
7540 NW St. Helens Rd.
Portland, OR 97210-3663

Analytical Narrative

The sample was received on 11/27/95 by Coffey Laboratories, Inc. (CLI) Sample Reception personnel under strict chain of custody protocol. The following information was provided at the time of sample reception:

Laboratory Sample ID	Field Identification	Matrix	Collection Date	Collection Time
951127AF-1	WWT 2-4-6 Composite	Waste Water	11/27/95	1545

The recommended holding time for each batch of analyses was in accordance with the data quality objectives as specified in the CLI Quality Assurance Plan unless otherwise noted.

Acceptable precision and accuracy were achieved for all analyses associated with this work order as demonstrated by the recoveries of the quality control samples analyzed concurrently with each batch.

The data submitted in this report is for the sole and exclusive use of the above-named client. All samples associated with the work order will be retained a maximum of 15 days from the report date or until the maximum holding time expires. All results pertain only to samples submitted.

Thank you for allowing Coffey Laboratories to be of service to you. If you have questions or need further assistance, please do not hesitate to call our Customer Services Department.

Sincerely,

Rona A. Klueh
Technical Director

RAK/atc

RECEIVED

DEC 5 1995

KOPPERS INDS., INC.
PORTLAND, OR

Coffey Laboratories, Inc.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003684



Analytical Data

Koppers Industry

Job Number: 951127AF

Page Number: 2 of 2

Lab Sample ID: 951127AF-1

Field ID: WWT 2-4-6 Composite

Date/Time: 11/27/95 1545

Matrix: Waste Water

EPA Category: Conventional Parameters

<u>Parameter</u>	<u>Method</u>	<u>Detection Limit</u>	<u>Analytical Result</u>	<u>Units</u>	<u>Analysis Date</u>	<u>Analyst</u>
Oil & Grease	EPA 413.1	3.	ND	mg/L	11/28/95	AB
Total Phenols	EPA 420.1	0.05	ND	mg/L	11/28/95	PDB

ND means none detected at or above the detection limit listed.

Coffey Laboratories, Inc.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003685

11/27/95

WWT 246

54°F

pH 6.3

PORTLAND BRANCH
12423 NE Whitaker Way
Portland, OR 97230
(503) 254-1794 FAX: (503) 254-1452

COFFEY LABORATORIES, INC.
CHAIN OF CUSTODY AGREEMENT

PENDLETON BRANCH
287 SE First
Pendleton, OR 97801
(503) 276-0385

Report
Attention: Amos Kamerer
Company Name: Koppers Industries Inc
Address: 7540 NW St Helens Road
Portland OR 97210
Phone: (503) 286-3681 FAX: (503) 285-2831
Report Instructions:

Project Name: _____
Project Number: _____
PO Number: _____
Sample Turnaround Reporting Request
☐ Standard ☐ FAX (T-35)
☐ Priority (1.5x Std. Fee) ☐ Verbals (T-1157)
☒ Rush (2x Std. Fee) ☐ Extra Report Copy (T-1402)
(Fees Associated)
☐ Emergency (3x Std. Fee) Initials: _____

FOR LABORATORY USE ONLY Page 1 of 1
Job Number: W6951127-10 AF
Custabbr: Kopp115 ☐ NEW
☐ VISA ☐ M/C Expires: _____
Card #: _____
Cash / Check: \$ _____ #:
Billing Code: 1 2 3 4
QC LEVEL: 1 2 3 4
FEDX BUS COURIER UPS LAB CLIENT MAIL

Sample ID	Loc.	ID	Collection Date / Time	Media	Analysis Requested	Test/Profile
WWT 2-4-6 composite			11/27/95 3:45pm		Phenols	
WWT 2-4-6 composite			11/27/95 3:45pm		Oil & Grease	
Sample Comments:						

Sampled by: (Please Print) <u>T.J. Turner</u>	Relinquished by: (Please Sign) <u>[Signature]</u>	Date <u>11/27/95</u>	Time <u>3:45pm</u>	Received by: (Sign) <u>[Signature]</u>	Date <u>11/27/95</u>	Time <u>3:45pm</u>
White Copy - Laboratory Copy	Yellow Copy - Client Copy					
SHADED AREAS FOR LABORATORY USE ONLY				LAB <u>My A</u>		

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO CLI WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THE CLIENT COPY.

COFFEY LABORATORIES, INC.
CHAIN OF CUSTODY INSTRUCTIONS/CONDITIONS SHEET

INSTRUCTIONS

FOR LAB USE ONLY -	All shaded areas are for laboratory use only. <u>Please Do Not Write in These Areas.</u>
REPORT ATTENTION -	Name of the person who receives the laboratory report.
COMPANY NAME -	Name of the company or individual requesting the analysis.
REPORT ADDRESS -	Address of the company or individual requesting the analysis. (Address where report should be mailed)
REPORT INSTRUCTIONS -	A brief description of any special mail instructions, or address information pertaining to extra report copies.
PROJECT NAME -	Applies to customer project name. This data is provided at the customer's discretion.
PROJECT NUMBER -	Applies only to samples submitted by the customer. This data is provided at the customer's discretion.
FIELD ID -	A short description of the sample point (e.g., "Effluent from sand filter"). This description will appear on the report.
COLLECTION DATE -	The date on which the sample(s) was/were collected.
COLLECTION TIME -	The time at which the sample(s) was/were collected.
MEDIA -	This is a description of the sample media (e.g., drinking water, waste water, soil, etc.)
ANALYSIS REQUESTED -	Use one line for each analysis or group of analyses associated to a specific bottle.
SAMPLE COLLECTED BY -	The person who collected the sample(s) signs here.
RELINQUISHED BY -	The sampler signs this box when he/she gives the sample to someone else, and then fills in the date/time the sample left his/her possession.
RECEIVED BY -	The person who receives the sample(s) signs here and fills in the date/time received. The date and time should be same as "Relinquished by" unless the sample(s) was/were shipped.
JOB OR SAMPLE REMARKS -	General sample or job remarks.

CONDITIONS

PRICING AND CHARGES

Prices to be charged for work performed for CLIENT are those currently published in the Coffey Laboratories, Inc. (CLI) standard pricebook. CLIENT must notify CLI of price quotation at the time of the transfer of sample(s) to CLI. All submissions of samples with testing requirements to CLI will be understood to be an agreement for services. Any cancellation of testing requirements will result in charges being assessed on all testing completed prior to the notice of cancellation.

DELIVERY AND LIABILITY LIMITATIONS

CLI will analyze samples provided by CLIENT as requested by CLIENT in accordance with the procedures documented in the CLI Quality Assurance Plan (QAP). The maximum total liability assumed by CLI for work performed for CLIENT will in all cases be limited to the cost of the analysis. The specific format of the deliverable goods will be defined by CLIENT to CLI upon transfer of the samples to CLI. This warranty supersedes all other warranties.

CONFIDENTIALITY

CLI will use its best efforts to treat all information regarding work performed for CLIENT as proprietary and confidential to the maximum extent allowed by law. NO CLIENT information will be released without the written consent of the CLIENT billed for the work.

APPLICABLE LAW

Legal matters arising from work performed by CLI for CLIENT will be construed and interpreted in accordance with the laws for the state of Oregon.

27 November, 1995

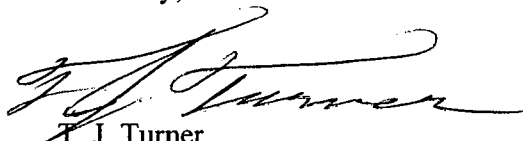
Amos S. Kamerer, Plant Manager
Koppers Industries, Inc.
7540 NW St Helens Road
Portland, OR 97210

Dear Sir:

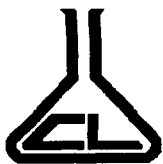
On November 25, 1995 I did a full walk through inspection of plant operations. Due to record rainfall of the last 24 hours, I found the lower tank farm flooding, all waste water tanks overflowing, and rain still falling.

If this situation continues, we will sustain further damage than we have already to pumps and other equipment. Due to this situation, I started pumping the overflow of rainwater directly to the plant outfall. We will continue this until we are out of danger. At this time, we also sampled waste water tanks 2, 4, and 6, and requested rush analysis.

Sincerely,



T. J. Turner
General Foreman



Report Date: November 20, 1995
Job Number: 9511150
PO Number: Verbal-Amos Kamerer
Project No: None Provided
Project Name: None Provided

Amos Kamerer
Koppers Industry
7540 NW St. Helens Rd.
Portland, OR 97210-3663

Analytical Narrative

The sample was received on 11/15/95 by Coffey Laboratories, Inc. (CLI) Sample Reception personnel under strict chain of custody protocol. The following information was provided at the time of sample reception:

Laboratory Sample ID	Field Identification	Matrix	Collection Date	Collection Time
9511150-1	WWT 1-3-5 Composite	Waste Water	11/15/95	0830

The recommended holding time for each batch of analyses was in accordance with the data quality objectives as specified in the CLI Quality Assurance Plan unless otherwise noted.

Acceptable precision and accuracy were achieved for all analyses associated with this work order as demonstrated by the recoveries of the quality control samples analyzed concurrently with each batch.

The data submitted in this report is for the sole and exclusive use of the above-named client. All samples associated with the work order will be retained a maximum of 15 days from the report date or until the maximum holding time expires. All results pertain only to samples submitted.

Thank you for allowing Coffey Laboratories to be of service to you. If you have questions or need further assistance, please do not hesitate to call our Customer Services Department.

Sincerely,

Rona A. Klueh
Technical Director

RAK/atc

RECEIVED

NOV 27 1995

KOPPERS INDS., INC.
PORTLAND, OR

Coffey Laboratories, Inc.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003690



Analytical Data

Koppers Industry

Job Number: 9511150

Page Number: 2 of 2

Lab Sample ID: 9511150-1

Field ID: WWT 1-3-5 Composite

Date/Time: 11/15/95 0830

Matrix: Waste Water

EPA Category: Conventional Parameters

Parameter	Method	Detection Limit	Analytical Result	Units	Analysis Date	Analyst
Oil & Grease	EPA 413.1	3.	4.	mg/L	11/15/95	AB
Total Phenols	EPA 420.1	0.05	ND	mg/L	11/16/95	PDB

ND means none detected at or above the detection limit listed.

Coffey Laboratories, Inc.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003691

11 / 15 / 95

WWT 1-3-5

pH 6.4

58°F

12423 NE Whitaker Way
Portland, OR 97230
(503) 254-1794 FAX: (503) 254-1452

COFFEY LABORATORIES, INC.
CHAIN OF CUSTODY AGREEMENT

PENDLETON BRANCH
287 SE First
Pendleton, OR 97801
(503) 276-0385

Report
Attention: Amos Kamerer
Company:
Name: Koppers Industries
Address: 7540 NW St Helens Rd
Portland OR 97210
Phone: (503) 286-3681 FAX: (503) 285-280

Report Instructions:

Project Name: _____	
Project Number: _____	
PO Number: _____	
Sample Turnaround <input type="checkbox"/> Standard <input type="checkbox"/> Priority (1.5x Std. Fee) <input checked="" type="checkbox"/> Rush (2x Std. Fee) <input type="checkbox"/> Emergency (3x Std. Fee)	Reporting Request <input type="checkbox"/> FAX (T-35) <input type="checkbox"/> Verbal (T-1157) <input type="checkbox"/> Extra Report Copy (T-1402) (Fees Associated) Initials: _____

FOR LABORATORY USE ONLY

Page _____ of _____

Job Number: 1269571150-2

Custabbr: _____ ☐ NEW

☐ VISA ☐ M/C Expires: _____

Card #: _____

Cash / Check: \$ _____ #:

Billing Code: 1 2 3 4

QC LEVEL: 1 2 3 4

FEDX BUS COURIER UPS LAB CLIENT MAIL

[illegible]

Sampled by: (Please Print)	Relinquished by: (Please Sign)	Date	Time	Received by: (Sign)	Date	Time	
TJ Turner	<i>[Signature]</i>	11/15/95	8:30	<i>[Signature]</i>	11/15/95	8:30	
White Copy - Laboratory Copy	Yellow Copy - Client Copy						
SHADED AREAS FOR LABORATORY USE ONLY		<i>[Signature]</i>	11/15/95	11:30	LAP	<i>[Signature]</i>	11/15/95

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO CLI WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THE CLIENT COPY.

Koppers003693

COFFEY LABORATORIES, INC.
CHAIN OF CUSTODY INSTRUCTIONS/CONDITIONS SHEET

I N S T R U C T I O N S

FOR LAB USE ONLY -	All shaded areas are for laboratory use only. <u>Please Do Not Write in These Areas.</u>
REPORT ATTENTION -	Name of the person who receives the laboratory report.
COMPANY NAME -	Name of the company or individual requesting the analysis.
REPORT ADDRESS -	Address of the company or individual requesting the analysis. (Address where report should be mailed)
REPORT INSTRUCTIONS -	A brief description of any special mail instructions, or address information pertaining to extra report copies.
PROJECT NAME -	Applies to customer project name. This data is provided at the customer's discretion.
PROJECT NUMBER -	Applies only to samples submitted by the customer. This data is provided at the customer's discretion.
FIELD ID -	A short description of the sample point (e.g., "Effluent from sand filter"). This description will appear on the report.
COLLECTION DATE -	The date on which the sample(s) was/were collected.
COLLECTION TIME -	The time at which the sample(s) was/were collected.
MEDIA -	This is a description of the sample media (e.g., drinking water, waste water, soil, etc.)
ANALYSIS REQUESTED -	Use one line for each analysis or group of analyses associated to a specific bottle.
SAMPLE COLLECTED BY -	The person who collected the sample(s) signs here.
RELINQUISHED BY -	The sampler signs this box when he/she gives the sample to someone else, and then fills in the date/time the sample left his/her possession.
RECEIVED BY -	The person who receives the sample(s) signs here and fills in the date/time received. The date and time should be same as "Relinquished by" unless the sample(s) was/were shipped.
JOB OR SAMPLE REMARKS -	General sample or job remarks.

C O N D I T I O N S

PRICING AND CHARGES

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CONFIDENTIALITY

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APPLICABLE LAW

Legal matters arising from work performed by CLI for CLIENT will be construed and interpreted in accordance with the laws for the state of Oregon.

13 November, 1995

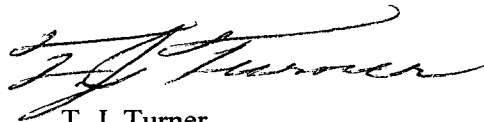
Amos S. Kamerer, Plant Manager
Koppers Industries, Inc.
7540 NW St Helens Road
Portland, OR 97210

Dear Sir:

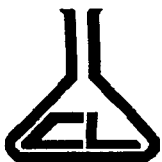
On November 11, 1995 I did a full walk through inspection of plant operations. Due to record rainfall of the last 24 hours, I found the lower tank farm flooding, all waste water tanks overflowing, and rain still falling.

If this situation continues, we will sustain further damage than we have already to pumps and other equipment. Due to this situation, I started pumping the overflow of rainwater directly to the plant outfall. We will continue this until we are out of danger. We at this time also sampled waste water tanks 1, 3, and 5, and requested rush analysis.

Sincerely,



T. J. Turner
General Foreman



Report Date: November 10, 1995
Job Number: 951107V
PO Number: Amos Kamerer
Project No: None Provided
Project Name: None Provided

Amos Kamerer
Koppers Industry
7540 NW St. Helens Rd.
Portland, OR 97210-3663

Analytical Narrative

The sample was received on 11/07/95 by Coffey Laboratories, Inc. (CLI) Sample Reception personnel under strict chain of custody protocol. The following information was provided at the time of sample reception:

Laboratory Sample ID	Field Identification	Matrix	Collection Date	Collection Time
951107V-1	WWT 1-3-5 Composite	Waste Water	11/07/95	1225

The recommended holding time for each batch of analyses was in accordance with the data quality objectives as specified in the CLI Quality Assurance Plan unless otherwise noted.

Acceptable precision and accuracy were achieved for all analyses associated with this work order as demonstrated by the recoveries of the quality control samples analyzed concurrently with each batch.

The data submitted in this report is for the sole and exclusive use of the above-named client. All samples associated with the work order will be retained a maximum of 15 days from the report date or until the maximum holding time expires. All results pertain only to samples submitted.

Thank you for allowing Coffey Laboratories to be of service to you. If you have questions or need further assistance, please do not hesitate to call our Customer Services Department.

Sincerely,

Rona A. Klueh
Technical Director

RAK/atc

RECEIVED

NOV 11 1995

KOPPERS INDS., INC.
PORTLAND, OR

Coffey Laboratories, Inc.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003696



Analytical Data

Koppers Industry

Job Number: 951107V

Page Number: 2 of 2

Lab Sample ID: 951107V-1

Field ID: WWT 1-3-5 Composite

Date/Time: 11/07/95 1225

Matrix: Waste Water

EPA Category: Conventional Parameters

Parameter	Method	Detection Limit	Analytical Result	Units	Analysis Date	Analyst
Oil & Grease	EPA 413.1	3.	3.	mg/L	11/07/95	AB
Total Phenols	EPA 420.1	0.05	ND	mg/L	11/07/95	PDB

ND means none detected at or above the detection limit listed.

Coffey Laboratories, Inc.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003697

11/7/95

53°F

pH 6.2
WWT 1-3-5

PORTLAND BRANCH

12423 NE Whitaker Way

Portland, OR 97230

(503) 254-1794 FAX: (503) 254-1452

COFFEY LABORATORIES, INC.**CHAIN OF CUSTODY AGREEMENT****PENDLETON BRANCH**

287 SE First

Pendleton, OR 97801

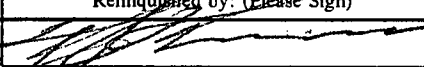
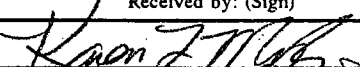

(503) 276-0385

Report	Amos Kameres	
Attention:		
Company	Koppers Industries Inc	
Name:		
Address:	7540 NW St Helens Rd Portland OR 97210	
Phone:	(503) 286-3684	FAX: (503) 285-2831
Report Instructions:		

Project		
Name:		
Project		
Number:		
PO Number:		
Sample Turnaround	Reporting Request	
<input type="checkbox"/> Standard	<input type="checkbox"/> FAX (T-35)	
<input type="checkbox"/> Priority (1.5x Std. Fee)	<input type="checkbox"/> Verbals (T-1157)	
<input checked="" type="checkbox"/> Rush (2x Std. Fee)	<input type="checkbox"/> Extra Report Copy (T-1402) (Fees Associated)	
<input type="checkbox"/> Emergency (3x Std. Fee)	Initials: _____	

FOR LABORATORY USE ONLY		Page	of
Job Number:	WG951107-V		
Customer:	<input type="checkbox"/> NEW		
<input type="checkbox"/> VISA <input type="checkbox"/> M/C Expires:			
Card #:			
Cash / Check: \$	#:		
Billing Code:	1	2	3 4
QC LEVEL:	1	2	3 4
FEDX	BUS	COURIER	UPS LAB CLIENT MAIL

Sample ID	Loc.	ID	Collection Date / Time	Media	Analysis Requested	Test/Profile
WWT 1-3-5 composite			11/7/95 12:25		phenols	
WWT 1-3-5 composite			11/7/95 12:25		oil & Grease	
Sample Comments:						

Sampled by: (Please Print)	Relinquished by: (Please Sign)	Date	Time	Received by: (Sign)	Date	Time
T. J. Turner		11/7/95	12:30		11/7/95	12:30
White Copy - Laboratory Copy	Yellow Copy - Client Copy				11/7/95	12:30
SHADED AREAS FOR LABORATORY USE ONLY						

SUBMISSION OF SAMPLES WITH TESTING REQUIREMENTS TO CLI WILL BE UNDERSTOOD TO BE AN AGREEMENT FOR SERVICES IN ACCORDANCE WITH THE CONDITIONS LISTED ON THE BACK OF THE CLIENT COPY.

Koppers003699

COFFEY LABORATORIES, INC.
CHAIN OF CUSTODY INSTRUCTIONS/CONDITIONS SHEET

I N S T R U C T I O N S

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REPORT ATTENTION -	Name of the person who receives the laboratory report.
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REPORT ADDRESS -	Address of the company or individual requesting the analysis. (Address where report should be mailed)
REPORT INSTRUCTIONS -	A brief description of any special mail instructions, or address information pertaining to extra report copies.
PROJECT NAME -	Applies to customer project name. This data is provided at the customer's discretion.
PROJECT NUMBER -	Applies only to samples submitted by the customer. This data is provided at the customer's discretion.
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COLLECTION TIME -	The time at which the sample(s) was/were collected.
MEDIA -	This is a description of the sample media (e.g., drinking water, waste water, soil, etc.)
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RELINQUISHED BY -	The sampler signs this box when he/she gives the sample to someone else, and then fills in the date/time the sample left his/her possession.
RECEIVED BY -	The person who receives the sample(s) signs here and fills in the date/time received. The date and time should be same as "Relinquished by" unless the sample(s) was/were shipped.
JOB OR SAMPLE REMARKS -	General sample or job remarks.

C O N D I T I O N S

PRICING AND CHARGES

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APPLICABLE LAW

Legal matters arising from work performed by CLI for CLIENT will be construed and interpreted in accordance with the laws for the state of Oregon.

November 1, 1991

Good morning:

As you may know, the Department of Environmental Quality (DEQ) has developed a new annual reporting system for hazardous waste handlers in Oregon. The enclosed reporting forms package will allow you to satisfy several DEQ and U.S. Environmental Protection Agency (EPA) obligations at one time.

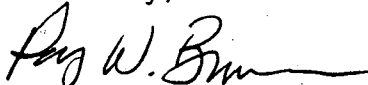
The information gained from this report will allow DEQ and the citizens of Oregon to better understand the nature of hazardous waste activities during 1991. These reports will also allow DEQ to meet its reporting obligation to EPA and the U.S. Congress. DEQ will use the information in these reports to update mailing lists so that technical information can be accurately distributed to appropriate groups. Finally, this information will serve as the basis for annual fee invoices in 1992, which will be based on the amount of waste generated, how it is managed, and your status as a handler.

Everyone who receives this packet must respond in some way. All large quantity generators, small quantity generators, designated recycling facilities, and treatment, storage and disposal facilities must complete the appropriate reporting forms. Conditionally exempt generators or non-generators must return the postcard on the back of Book 1. A completed form or postcard must be returned to DEQ by March 1, 1992.

In order to assist you with completing your forms, DEQ has scheduled a series of workshops throughout the state which will help you better understand hazardous waste issues and the new reporting forms. Please review the enclosed brochure and return a registration form to DEQ for the workshop which best meets your need. (The Salem workshop on November 12 & 13 is full. We are attempting to schedule another two-day workshop in February for the Portland metropolitan area. Please let us know if you are interested in this February workshop so we can notify you of a time and location once it is set.)

Should you have any questions, you can call DEQ at (503) 229-6240 for more information. Thank you for your cooperation.

Sincerely,



Roy W. Brower, Manager
Hazardous Waste Reduction and
Technical Assistance

RWB:k
HWFM\LTR\ZK3839
Enclosures

RECEIVED

NOV 7 1991

KOPPERS INDS., INC.
PORTLAND, OR



811 SW Sixth Avenue
Portland, OR 97204-1390
(503) 229-5696

DEQ-1



Koppers003701

*Called John Odozio 5-27-92
told him of our previous exemption,
of the DEQ inspectors visit in 91,
and that no hazardous waste was
generated in 91. He said he would
exempt us on the computer*

April 2, 1992 *J.E.O.*

Oregon

DEPARTMENT OF
ENVIRONMENTAL
QUALITY

John Oxford
Koppers Industries, Inc.
7540 NW St. Helens Road
Portland, OR 97229

Re: Toxics Use Reduction and
Hazardous Waste Reduction
Plan for facility located at
7540 NW ST. HELENS RD
PORTLAND, OR 97229

In 1989, the Oregon Legislature enacted the Toxics Use Reduction and Hazardous Waste Reduction Act (ORS 465.003 through 465.037), the first of its kind in the country. The Act is intended to go beyond traditional "end-of-the-pipe" pollution control programs and promote the prevention of pollution through facility-wide planning efforts which result in a reduction in the use of toxic substances and generation of hazardous wastes. The law benefits both businesses and the environment through reduced costs, liabilities, and up-front environmental protection.

The law requires businesses, industries, government agencies, and institutions to review the practices and processes that use toxic substances and generate hazardous wastes and to prepare reduction plans. The law also provides for a technical assistance program provided by the Department of Environmental Quality (DEQ) to assist businesses in their planning efforts, and directs the DEQ to monitor the effectiveness of the program, including onsite review of the plans.

Many businesses and other organizations have already found that they can reduce the costs and liabilities associated with handling hazardous materials and generating hazardous wastes through the implementation of a reduction program. The planning guidelines are flexible enough to allow you to develop a program which will work best in your facility. The guidelines also will help you select options that are both technically and economically feasible.

RECEIVED

APR 6 1992

KOPPERS INDS, INC.
PORTLAND, OR



811 SW Sixth Avenue
Portland, OR 97204-1390
(503) 229-5696
TDD (503) 229-6993
DEQ-1



Koppers003702

Toxics Use Reduction & Hazardous Waste Reduction Plan Preparation Training Sessions

DEPARTMENT OF
ENVIRONMENTAL
QUALITY

Purpose of the sessions: To help small quantity generators (SQG) of hazardous waste prepare toxics use reduction plans, which are required to be completed by September 1, 1992.

This will be a hands-on training session designed to give you practical information and to get you started on preparing a plan.

How to register: These sessions are popular and space is limited! To attend one of the training sessions, you **MUST** register. Please register **ONLY** the number of people from your organization who will actually attend the session. To register, call Joyce Thomas or Janelle Dean at 229-5913, or toll free at (800) 452-4011.

Times: All sessions run from 1:00 PM to 4:00 PM, except as noted.

Dates and Locations:

Tuesday, April 28
Gresham
Legacy Health Center, Room 204
2850 E. Powell Valley Road
(across from Fred Meyer)

Wednesday, April 29
Forest Grove
Light and Power Auditorium
1818 "B" Street
(southwest end of town)

Thursday, April 30
The Dalles
Mid Columbia Senior Center
1112 West 9th

Monday, May 4
Eugene
Lane County Public/Court House
125 East 8th

Tuesday, May 5
Bend
Cascade Natural Gas Building
334 NE Hawthorne
(just off 3rd by the Safeway Plaza)

Tuesday, May 5
Coos Bay
Neighborhood Hall
250 Hull St.
(right off Newmark,
out by the college)



511 SW Sixth Avenue
Portland, OR 97204-1390
(503) 229-5696



Wednesday, May 6

Grants Pass

Isaac Walton log cabin
1001 Vista Dr.
(in Riverside Park)

Monday, May 11

Oregon City

Baxter Annex
Marylhurst Campus
(on Pacific Hwy., north of West Linn)

Tuesday, May 12

La Grande

Highway Division Conference Room
3012 Island Drive
(in Island City strip, behind State Police)

Thursday, May 14

John Day

Council Chambers
City Hall

Thursday, May 7

Klamath Falls

College Union Hall
3201 Campus Dr.
Oregon Institute of Tech.

Tuesday, May 12

Salem

PGE Building
4245 Kale St., NE
(Chemawa exit from I-5,
on old 99E)

Wednesday, May 13

Ontario

Cascade Natural Gas
Community Services Bldg.
180 West Idaho, Ontario
(park in city lot or Elk Lodge only)

Monday, June 1

Portland

Oregon Convention Center
777 NE M. L. King Jr. Blvd.
Sessions at 8:00 AM and 1:00 PM



Waste Reduction Assistance Program

FOR TOXIC SUBSTANCES AND HAZARDOUS WASTES

YOU ARE A LARGE USER IF...



- your company was required to submit a Toxics Release Inventory (TRI) report to EPA

Or if you meet all three of the following criteria

- you are a manufacturer with a SIC code of 20 to 39
- you have 10 or more full-time employees
- you manufacture, process, or import 25,000 pounds or more of listed chemicals in one year *or* use 10,000 pounds or more of any listed chemical in one year without incorporating it into a product

YOU ARE A LARGE QUANTITY GENERATOR IF...



In one calendar month you...

- generate 2,200 pounds or more of hazardous waste *or*
- generate 2,200 pounds or more of spill cleanup debris containing hazardous waste *or*
- generate more than 2.2 pounds of acutely hazardous waste *or*
- generate more than 220 pounds of spill cleanup debris containing an acutely hazardous waste *or*

At any time you...

- accumulate more than 2.2 pounds of acutely hazardous waste on-site

YOU ARE A SMALL QUANTITY GENERATOR IF...



In one calendar month you...

- generate more than 220 pounds and less than 2,200 pounds of hazardous wastes *or*
- generate more than 220 pounds and less than 2,200 pounds of spill cleanup debris containing hazardous wastes *or*

At any time you...

- accumulate more than 2,200 pounds of hazardous waste on-site

YOU ARE A CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR IF...



In one calendar month you...

- generate 2.2 pounds or less of acutely hazardous wastes *or*
- generate 220 pounds or less of hazardous wastes *or*
- generate 220 pounds or less of spill cleanup debris containing hazardous waste *or*

At any time you...

- accumulate up to 2,200 pounds of hazardous waste on-site



April 2, 1992

Page 2

All facilities that were large toxics users in 1990 or 1991, or were large quantity hazardous waste generators or small quantity hazardous waste generators in 1991, are required to develop plans by September 1, 1992. (See the enclosed fact sheet for definitions of these terms.) Our records show that your facility is a large toxics user, large quantity generator, small quantity generator, or a combination thereof. Therefore, you are required to prepare a plan and notify the DEQ by September 1, 1992 that the plan has been completed.

In order to assist you with understanding the requirements of the law, the DEQ has scheduled a series of plan development workshops which will be held throughout the state in April and May. Please review the enclosed schedule and register by phone or mail as soon as possible.

In addition to the workshops, the DEQ's technical assistance staff will be available to help you through telephone assistance and, on a limited basis, visits to your facility. A technical library of information on reduction options is available at the DEQ to help you determine what programs may work best for your facility.

Enclosed is a planning manual that will help you prepare a reduction plan:

Benefitting from Toxic Substance and Hazardous Waste Generation, A Planning Guide for Oregon Businesses

After you complete your plan, fill out the Notice of Plan Completion form on page 42 in the manual and mail it to the DEQ.

Also enclosed is a brochure that explains the Governor's Award Program for toxics use reduction. The goal of the program is to encourage the implementation of toxics use reduction and hazardous waste reduction programs in Oregon through the public recognition of persons who have developed and implemented exemplary reduction programs. Call the DEQ if you would like an application to apply for the award.

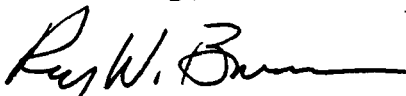
If your facility's name or address is written incorrectly in the address section of this letter, or if you believe the DEQ's records for your facility are not accurate, please contact John Odisio in Portland at 229-6352.

Please take this opportunity to develop and implement a plan which reduces the use of toxic substances and the generation of hazardous wastes in your facility. Our mutual goal is to make Oregon a safer place to live and work and to improve the environment for ourselves and future generations.

April 2, 1992
Page 3

If you have any questions about the law or how to prepare a reduction plan, please contact the Hazardous Waste Reduction and Technical Assistance Program at (503) 229-5913.

Sincerely,



Roy W. Brower
Manager, Hazardous Waste Reduction
and Technical Assistance Program

JMO:jmo

Enclosures:

1. Toxics user and hazardous waste generator definition sheet
2. Benefitting from Toxic Substance and Hazardous Waste Generation, A Planning Guide for Oregon Businesses
3. Plan development workshop schedule
4. Governor's Award brochure

November 20, 1991

Dear Hazardous Waste Generator:

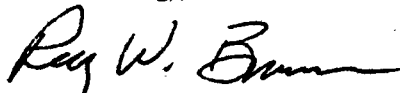
Enclosed you will find an invoice from the Oregon Department of Environmental Quality (DEQ) for hazardous waste generated by your facility during calendar year 1990. Oregon Administrative Rules (OAR 340-102-065) direct DEQ to charge a fee to all generators of hazardous waste, based on the weight of the waste generated during the previous calendar year. Also enclosed is a Generator Fee Fact Sheet which helps explain this fee assessment.

We have included with each invoice a detailed "Waste Summary Report" of the shipments of hazardous waste from your facility during 1990. This information is obtained from several sources. (The source of the information is indicated in the "Data From" column on the printout.) While we rely primarily on quarterly reports from generators, we also use reports filed by receiving facilities (known as a TSDR - treatment, storage, disposal or recycling facility). All TSDRs are under a legal obligation to report to DEQ the names of generators sending waste to their facility, as well as the quantity and type of waste. Failure of the TSDR to report this information could jeopardize their right to operate.

Generators who notified DEQ of their conditionally exempt status are not assessed a fee unless our records indicate that significant volumes of hazardous waste were generated. If, after reviewing the enclosed invoice and waste summary report, you determine that you are a conditionally exempt small quantity hazardous waste generator (CEG), you must inform DEQ in writing of your change in generator status. We will review the information and inform you of any changes to your fee assessment.

If you have any questions concerning your invoice or require additional information or notification forms, please contact Edna Mayes (229-5648), Susan Eidman (229-6511) or Scott Latham (229-5082).

Sincerely,



Roy W. Brower, Manager
Hazardous Waste Reduction &
Technical Assistance Section

RWB:b
HWPD\LTR\ZB10995
Enclosure(s)



811 SW Sixth Avenue
Portland, OR 97204-1390
(503) 229-5696

NOV 22 1991

KOPPERS INDS., INC.
PORTLAND, OR

DEQ-1



Koppers003708

October 8, 1991

John Oxford
Koppers Industries, Inc.
7540 NW St. Helens Road
Portland, OR 97229

Re: Notice of Deficiency regarding Toxics Use Reduction
and Hazardous Waste Reduction Plan
Facility: KOPPERS INDUSTRIES, INC

On March 8, 1991 the Department of Environmental Quality sent your company a notification packet to the address indicated above. To date we have not received a response required by the Toxics Use Reduction and Hazardous Waste Reduction Act of 1989. Under this law some Oregon companies must prepare reduction plans and notify the Department of Environmental Quality in writing that such a plan has been completed by September 1, 1991. Our records indicate that your company was a large quantity generator of hazardous wastes, or a large toxics user (filed a Form R report under SARA 313), or fell into both of these categories in 1990 and therefore must complete a reduction plan and a "Notice of Plan Completion". If your status in 1990 was different than indicated you are exempt from filing the notice this year. However, you must notify the Department in writing of this status change immediately.

Your company has until December 1, 1991 to develop a plan and submit the required "Notice of Plan Completion" to Oregon DEQ, Hazardous and Solid Waste Division, 811 S.W. Sixth Avenue, Portland, Oregon 97204. After this period the regulations state that the Department shall make any information regarding the adequacy of these reduction plans available to the public. Although we hope it will not be necessary, the Department intends to make public the list of companies who were required by law to submit plans but did not. Please help us ensure that your company's name is not on that list by responding promptly to this letter.

OVER

RECEIVED

OCT 15 1991

KOPPERS INDS., INC.
PORTLAND, OR



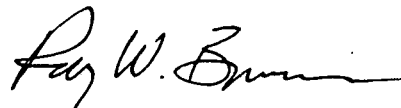
811 SW Sixth Avenue
Portland, OR 97204-1390
(503) 229-5696
TDD (503) 229-6993
DEQ-1



If you need help preparing your plan the Department of Environmental Quality is available to provide technical assistance to your company on a first come first served basis. The Waste Reduction Assistance Program (WRAP) was established by the Oregon legislature as a non-regulatory program to provide technical expertise, information and in-plant assistance to Oregon companies wishing to reduce their chemical usage and the generation of hazardous waste.

For more information about the law or the WRAP technical assistance program you can call 229-5913 or 800-452-4011.

Sincerely,



Roy W. Brower, Manager
Hazardous Waste Reduction
and Technical Assistance
Section

Spoke to Susan Eidman at D.E.Q
She is requiring a letter from ~~us~~ us
stating we are exempt from T.V.R
because we do not manufacture
here. Letter sent 10/17/91 to D.E.Q
Certified mail CC: Sweeney
Komer
Plant Fill

KOPPERS

7540 N.W. ST. HELENS ROAD
PORTLAND, OREGON 97210

TO: Bill Smewigen K-1880

COMPANY NAME: K I I

FROM: Koppes / Portland

NUMBER OF PAGES TO FOLLOW: (2) two

IF YOU DO NOT RECEIVE ALL MATERIAL TRANSMITTED, PLEASE
CALL US AT: (503) 286-3681

OUR FAX NUMBER IS: (503) 285-2831

SENT BY: Jtn. TIME: 9²⁰ DATE: 3/18/91

March 8, 1991

In 1989, the Oregon Legislature enacted the Toxics Use Reduction and Hazardous Waste Reduction Act (ORS 465.003 through 465.037), the first of its kind in the country. The Act is intended to go beyond the traditional "end-of-the-pipe" pollution control programs and promote the prevention of pollution through facility-wide planning efforts which result in a reduction in the use of toxic substances and generation of hazardous wastes. The law benefits both businesses and the environment through reduced costs and liabilities and up-front environmental protection.

The law requires businesses, industries, government agencies and institutions to review the practices and processes that use toxic substances and generate hazardous wastes and prepare reduction plans. The law also provides for a technical assistance program provided by the Department of Environmental Quality (DEQ) to assist businesses in their planning efforts, and directs the DEQ to monitor the effectiveness of the program, including on-site review of the plans.

Many businesses have already found that they can reduce the costs and liabilities associated with handling hazardous materials and generating hazardous wastes through the implementation of a reduction program. The planning guidelines are flexible enough to allow you to develop a program which will work best in your facility. The guidelines also will help you select options that are both technically and economically feasible.

The law requires that all large toxics users (LTU) and large quantity hazardous waste generators (LQG) develop plans by September 1, 1991, and small quantity hazardous waste generators (SQG) develop plans by September 1, 1992. (See the attached fact sheet for a definition of these terms.) Our records indicate that your facility is considered an LTU or LQG and is required to develop a reduction plan by September 1, 1991. (The law states that your status in calendar year 1990 determines when your plan is due.) If you believe that our



811 SW Sixth Avenue
Portland, OR 97204-1390
(503) 229-5696

MAR 7 1991

KOPPERS INC. INC.
PORTLAND, OR

DEQ-1



Koppers003712

March 8, 1991
Page 2

records are incorrect, please contact DEQ in writing as soon as possible.

Enclosed are materials which will help you prepare a reduction plan:

- Toxics Use Reduction and Hazardous Waste Reduction Act Summary; and
- "Benefitting from Toxic Substance and Hazardous Waste Generation, A Planning Guide for Oregon Businesses." The manual contains the text of the statutes and regulations.

In order to assist you with understanding the requirements of this new law, DEQ has scheduled a series of Plan Development Workshops which will be held throughout the state in April and May. Please review the attached schedule send in your registration form as soon as possible.

In addition to the workshops, DEQ's technical assistance staff will be available through telephone assistance and visits to your facility to help you develop your plan and answer questions. A technical library of information on reduction options is available at DEQ to help you determine what programs may work best for your facility.

We hope you will use this opportunity to develop and implement a plan which reduces the use of toxic substances and the generation of hazardous wastes in your facility. Our mutual goal is to make Oregon a safer place to live and work and to improve the environment for ourselves and future generations.

If you have any questions about the law or how to prepare a reduction plan, please contact the Hazardous Waste Reduction and Technical Assistance Program at (503) 229-5913.

Sincerely,



Roy W. Brower
Manager, Hazardous Waste
Reduction and Technical
Assistance Program

RWB:mef
Enclosure

Called
Juan Soliman
7-15-91

October 17, 1991

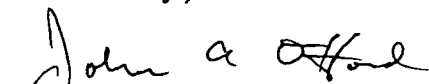
Oregon D.E.Q.
Attn: Ms. Susan Eidman
811 S. W. 6th Ave.
Portland, Oregon
97204-1390

Dear Ms. Eidman:

This letter is in response to our telephone conversation of October 17, 1991, in which I referred to our telephone conversation of July 15, 1991. As I told you at that time, Koppers Industries Inc., Portland, Oregon facility should be exempt from reporting under the Toxic Use Reduction & Hazardous Waste Reduction Act of 1989. Koppers is not a large quantity generator of waste, nor are we a large user of Toxics. Our facility here in Portland does not manufacture any product. We are a distribution terminal, distributing Coal Tar Creosote and Coal Tar Pitch to customers in the Northwest. Our materials are manufactured at other Koppers facilities outside of the State of Oregon. Any past records of waste disposal from Koppers facility in Portland simply attest that spills were cleaned up and disposed of according to State and Federal Laws.

If you require more information or if I can be of help in any way please feel free to call.

Sincerely,



John A. Oxford
Plant Manager

CC: Wm. Swearingen
A. Kameron
Plant File

JAO:mn

from Uxpara

Note 5/9/91 Discussed with Oxford on phone today. He will write up a draft Waste Reduction Plan and send to me for review. I told him that since we don't generate wastes from the process but only occasionally from spills that the plan should point out spill control and waste measures plus management leak control program etc.

March 8, 1991

Oregon

DEPARTMENT OF
ENVIRONMENTAL
QUALITY

In 1989, the Oregon Legislature enacted the Toxics Use Reduction and Hazardous Waste Reduction Act (ORS 465.003 through 465.037), the first of its kind in the country. The Act is intended to go beyond the traditional "end-of-the-pipe" pollution control programs and promote the prevention of pollution through facility-wide planning efforts which result in a reduction in the use of toxic substances and generation of hazardous wastes. The law benefits both businesses and the environment through reduced costs and liabilities and up-front environmental protection.

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JUN 7 1991

KOPPERS INDS. INC.
PORTLAND, OR



811 SW Sixth Avenue
Portland, OR 97204-1390
(503) 229-5696

DEQ-1



Koppers003715

March 8, 1991

Page 2

records are incorrect, please contact DEQ in writing as soon as possible.

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- Toxics Use Reduction and Hazardous Waste Reduction Act Summary; and
- "Benefitting from Toxic Substance and Hazardous Waste Generation, A Planning Guide for Oregon Businesses." The manual contains the text of the statutes and regulations.

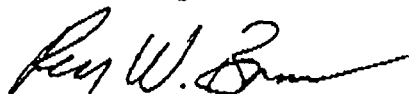
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We hope you will use this opportunity to develop and implement a plan which reduces the use of toxic substances and the generation of hazardous wastes in your facility. Our mutual goal is to make Oregon a safer place to live and work and to improve the environment for ourselves and future generations.

If you have any questions about the law or how to prepare a reduction plan, please contact the Hazardous Waste Reduction and Technical Assistance Program at (503) 229-5913.

Sincerely,



Roy W. Brower
Manager, Hazardous Waste
Reduction and Technical
Assistance Program

RWB:mef
Enclosure



Oregon

Theodore R. Kulongoski, Governor

CERTIFIED MAIL

RETURN RECEIPT REQUESTED

Department of Environmental Quality

Northwest Region Portland Office

2020 SW 4th Avenue, Suite 400

Portland, OR 97201-4987

(503) 229-5263

FAX (503) 229-6945

TTY (503) 229-5471

September 30, 2004

T.J. Turner
General Forman
Koppers Inc
7540 NW Saint Helens Road
Portland, OR 97210

Post-It [®] Fax Note 7671		Date 10/4/04	# of pages 5
To	TRACI SELF	From	Amos
Co./Dept.	FYI	Co.	
Phone #	Call us, About	Phone #	8:15 AM tomorrow
Fax #		Fax #	if you can

RE: **Copy of Inspection Report.**
NWR-04-040
ORD027734359
Koppers Inc
Hazardous Waste Violations
Multnomah County

*cc: Leslie Hyde
Jim Dietz*

Dear Mr. Turner:

Enclosed is a copy of the inspection report for the Koppers facility. The report is done to detail the activities and discussion that occurred at the during the facility inspection. I am sending this to you to provide you any additional information you may need to address the corrections to the Notice that were requested by the Department.

If you have any questions concerning this letter or the Notice, you may contact me at (503) 229-6105.

Sincerely,

Rebecca Paul
Natural Resource Specialist

(files)

cc: Office of Compliance and Enforcement, DEQ

State of Oregon
Department of Environmental Quality

Memorandum

Date: September 16, 2004

To: File

From: Rebecca Paul: Northwest Region

Subject: Inspection Report on Koppers Company.

On September 9 and September 14, 2004, I performed an inspection of the Koppers Company located at 7540 NW Saint Helens Road in Portland, Oregon. This inspection was done as a routine compliance inspection and to determine the facility's compliance with the Department's Hazardous Waste regulations. I was escorted through the facility by Mr. TJ Turner the facility's General Foreman. On the second day of the inspection, I met with Mr. Amos Kameron, who is a Semi-Retired Manager of the facility.

Generator Status:

The facility was registered as a Large Quantity Generator (LQG), and was operating as an LQG for the years 2002, and 2003. Currently, the facility is a Conditionally Exempt Generator, (CEG). However Koppers may be an LQG in the future depending on how they decide to manage and characterize their waste streams in the future.

Site Inspection:

The facility was not operating at the time of the inspection. The Department has been out to this facility in years past mostly on compliant investigations. The facility is routinely inspected due to its water quality permit. There are several areas of the facility that were in the process of being cleaned and put out of service. According to Mr. Turner this work was being done while the facility's management back east was deciding what the future of the company was going to be. I asked Mr. Turner about the process in order to understand the waste streams that were generated. I received furthermore clarification during my subsequent meeting with Mr. Kameron.

The facility receives by-products from the coal industry. The two main products that they handle are coal tar pitch and creosols. The coal tar is received in a solid form and is commonly referred to as pencil pitch. The creosol was received in its liquid form but Koppers discontinued handling creosol several years ago. The creosol was used as a treatment chemical for railroad ties, phone poles, and in some cases as an additive to roofing compounds. The majority of the waste that was generated from the facility was related to the cleaning of the tanks that once contained the creosol.

Currently, Koppers is only servicing the contracts that they have place for two aluminum plants in the Northwest. The coal tar pitch is used to make the pot liners for the aluminum industry. They had contracts with many of the smelters in the northwest. Some of those smelters have

since shut down so the company is in the process of servicing the two remaining smelters in the area. According to Mr. Turner, Koppers will be evaluating in December if the Portland operation will continue to exist. As a result of the lost of business, the facility has cleaned out 20 product storage tanks at the facility, and is currently only using six tanks for their operation.

The process of making the coal tar pitch saleable requires that the facility changes its form from a solid to a liquid material. The raw material is stored in a large metal building onsite. The material is placed on a conveyor belt and is fed in to a heating unit. The material is heated to about 350 ° F to turn the material into a liquid. The liquid material is then placed into tanker trucks for transportation. Currently, the facility is shipping out three truck loads per day, three to four days per week. Mr. Turner and I toured the facility and there was no activity going on at the time. There were no waste drums in storage. The majority of the tanks that had been cleaned out were labeled as being "out-of service". There were some drums stored on the west side of the building but these drums were empty. We then toured the raw product area where dry coal tar is stored. During my past inspections at the facility there were large piles of material in this building. This time there were some very small piles of materials which mostly appeared to be residues of previously heated materials. There was metal crating in between the asphalt floor and the walls. A fair amount of dry coal tar had collected in these areas. A spill of previously heated coal tar was observed on the floor in this building. I asked Mr. Turner about this spill. He said that one the truck was overweight so it was returned to the facility to offload the overweight material. They poured off the liquid material on to the floor of the building and allowed it to harden on the asphalt. He said that he was going to scrape up the material and place it back into the process to be reheated and reused. I asked when this spill occurred and he said the material had been there for six weeks. I asked him when they were planning on running the conveyor. I also asked him when it was last operated. He said that they have not used it since the first of the year which is approximately nine months from the date of this inspection.

We toured the remainder of the facility. There were three drums of used oil stored in drum storage area. These drums were labeled and closed at the time of the inspection. There were no drums of hazardous waste found at the facility.

I then performed a records review which I continued on September 14, 2004. The delay was due to a previous appointment Mr. Turner had. I also had some additional questions regarding the paperwork I reviewed. I needed Mr. Kameroner to clarify some of these issues for me. Mr. Kameroner works a part time schedule. I had some questions regarding the process and the waste streams that were generated. The waste codes on the manifests were listed as U051, and D018. The material was shipped in drums as a solid, in 2003. This material did not use the same shipping name as the creosote which is specifically listed. Mr. Kameroner said that waste was the solid coal tar or pencil pitch not the creosote. I asked him if the material had been tested to determine if it fails to TCLP benzene. He said at the time that he assigned the waste codes to the material because it was less expensive to dispose of this waste as a hazardous waste as opposed to testing it. He said he took a more conservative approach to the disposal. I asked if they had any test results for the coal tar or pencil pitch. During this meeting they contacted their corporate environmental manager. She said that she was not sure if they had TCLP data on the coal tar pitch or not. She said that the information was on the MSDS sheet. I explained that they should have lab results to back up what was on the MSDS sheet. However, the purpose of an MSDS is to

sheet is for worker safety issues not disposal. Furthermore the disposal of the material, coal tar is regulated as a hazardous waste in its used form, in the aluminum business it is regulated as a listed waste, for Potliner, K061.

I explained my reasoning for asking the questions related to the coal tar pitch. If the material is a hazardous material that requires reclamation prior to its use, the coal tar which is remaining inside the steel building has the potential to become a hazardous waste under the rules of speculative accumulation. The facility must process 75% of the material within one calendar year. Any material that is not processed then becomes a waste and is subject to a waste determination and management as such. Given that all of the information that the facility has provided regarding this material, it may be a hazardous waste for TCLP benzene. Since the facility has customers that use the product, it would be wise for the company to process and sell the material before the year is over. I explained this during the closing conference for the facility.

Waste Streams:

Coat Tar Pitch: U051, D018: Koppers characterized this waste stream based on knowledge and they have no supporting lab data. It is likely that the waste stream was mischaracterized for the U051 waste code, and that it may or may not fail for the TCLP benzene.

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The manifests and the LDR forms were reviewed. The facility had all of the signed copies of the manifests. The LDR forms filed for each shipment of waste. All of the manifests were within the 60-day return signature requirement.

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The employee training program was reviewed. The personnel were trained in the facility's Spill Contingency Plan and some very basic hazardous waste training. They documented that the training was provided for the two years that they were operating as an LQG. As part of that requirement job descriptions for personnel must be included. The facility had job descriptions however they did not address the tasks associated with hazardous waste responsibilities. It must also include the specific list the person's name who is filling that job title. This is done so the facility and its employees have accountability. Koppers was also not doing weekly inspections of the drum storage area when hazardous waste drums were being stored. Personnel need to be trained on how to perform these inspections. These inspections should be documented in order to demonstrate compliance.

May 26, 1999

Attention: Jim Dietz

On May 25, 1999 at approximately 3:00 PM, Northwest Terminal had an inspection by the Department of Environmental Quality due to an alleged complaint they received at their office. Rebecca E. Paul, Environmental Specialist for Hazardous Waste Compliance performed the plant inspection.

During the inspection there were 2 issues of alleged non-compliance brought to my attention.

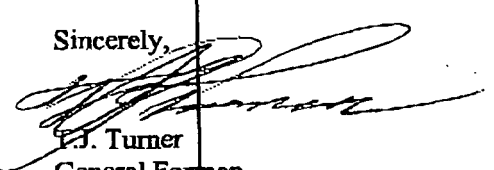
First Issue:

A vacuum street sweeper company we have come in and clean our plant asphalted areas on an as needed basis, deposited the water and sweepings from the plant roadways they collected. Due to a misunderstanding of the instructions, given by our plant personnel, the sweeper driver, who was new and unfamiliar with our plant, deposited the water and sweepings off the edge of the asphalt on to the adjoining soil. This area is located at the northwest end of the plant, behind the pitch warehouse, "next to the vehicle and trailer wash areas". This wash area recessed and asphalted, is where this water and sweepings are normally deposited so water can evaporate and the solids can be recycled or disposed of in a proper manner. Once this error was realized, our plant personnel removed the sweepings to the asphalt area and tarped it. Ms. Paul took 2 samples, one of the sweepings, the other of the soil on the other side of the roadway.

Second Issue:

Located at the south side of the pitch storage warehouse were 4 drums (1 acidic cleaner for aluminum, 1 caustic neutralizer for the cleaner, 1 citrus cleaner, 1 used oil for recycle) and several batteries on pallets contained on a steel bay. These were recently moved from the plate steel bay onto a gravel area next to it, I assume, due to the on going dismantling and construction in that area. The reason why has not been ascertained and/or confirmed. One of the 4 drums was a caustic liquid used as a neutralizer to an acid cleaner for aluminum. The plastic drum appeared to have leaked from a crack in the top of the drum as a result of being moved, leaving a white residue down the side of the drum with a small amount of residue on the gravel. Ms. Paul field-tested the residue for a pH of 12. She agreed for us to place the previously mentioned items in a contained area and to wait for her letter to proceed any further. The small amount of residue and soil was removed and placed in a hazardous waste drum.

Sincerely,


E.J. Turner

General Foreman

CC:

Amos Kamere

Traci Self

Kevin Fitzgerald



Oregon

Theodore R. Kulongoski, Governor

CERTIFIED MAIL

RETURN RECEIPT REQUESTED

Department of Environmental Quality

Northwest Region Portland Office

2020 SW 4th Avenue, Suite 400

Portland, OR 97201-4987

(503) 229-5263

FAX (503) 229-6945

TTY (503) 229-5471

September 30, 2004

T.J. Turner
General Forman
Koppers Inc
7540 NW Saint Helens Road
Portland, OR 97210

Post-It® Fax Note 7671		Date 10/4/04	# of pages 5
To TRACI SELF	From AMOS		
Co./Dept. FYI	Co.		
Phone # CALL US, ABOUT	Phone # 8:15 AM TOMORROW		
Fax #	Fax # IF YOU CAN		

RE: **Copy of Inspection Report.**
NWR-04-040
ORD027734359
Koppers Inc
Hazardous Waste Violations
Multnomah County

cc: Leslie Hyde
Jim Dietz

Dear Mr. Turner:

Enclosed is a copy of the inspection report for the Koppers facility. The report is done to detail the activities and discussion that occurred at the during the facility inspection. I am sending this to you to provide you any additional information you may need to address the corrections to the Notice that were requested by the Department.

If you have any questions concerning this letter or the Notice, you may contact me at (503) 229-6105.

Sincerely,

Rebecca Paul

Rebecca Paul
Natural Resource Specialist

(files)

cc: Office of Compliance and Enforcement, DEQ

State of Oregon
Department of Environmental Quality

Memorandum

Date: September 16, 2004

To: File

From: Rebecca Paul: Northwest Region

Subject: Inspection Report on Koppers Company.

On September 9 and September 14, 2004, I performed an inspection of the Koppers Company located at 7540 NW Saint Helens Road in Portland, Oregon. This inspection was done as a routine compliance inspection and to determine the facility's compliance with the Department's Hazardous Waste regulations. I was escorted through the facility by Mr. TJ Turner the facility's General Foreman. On the second day of the inspection, I met with Mr. Amos Kamerer, who is a Semi-Retired Manager of the facility.

Generator Status:

The facility was registered as a Large Quantity Generator (LQG), and was operating as an LQG for the years 2002, and 2003. Currently, the facility is a Conditionally Exempt Generator, (CEG). However Koppers may be an LQG in the future depending on how they decide to manage and characterize their waste streams in the future.

Site Inspection:

The facility was not operating at the time of the inspection. The Department has been out to this facility in years past mostly on compliant investigations. The facility is routinely inspected due to its water quality permit. There are several areas of the facility that were in the process of being cleaned and put out of service. According to Mr. Turner this work was being done while the facility's management back east was deciding what the future of the company was going to be. I asked Mr. Turner about the process in order to understand the waste streams that were generated. I received furthermore clarification during my subsequent meeting with Mr. Kamerer.

The facility receives by-products from the coal industry. The two main products that they handle are coal tar pitch and creosols. The coal tar is received in a solid form and is commonly referred to as pencil pitch. The creosol was received in its liquid form but Koppers discontinued handling creosol several years ago. The creosol as used as a treatment chemical for railroad ties, phone poles, and in some cases as an additive to roofing compounds. The majority of the waste that was generated from the facility was related to the cleaning of the tanks that once contained the creosol.

Currently, Koppers is only servicing the contracts that they have place for two aluminum plants in the Northwest. The coal tar pitch is used to make the pot liners for the aluminum industry. They had contracts with many of the smelters in the northwest. Some of those smelters have

since shut down so the company is in the process of servicing the two remaining smelters in the area. According to Mr. Turner, Koppers will be evaluating in December if the Portland operation will continue to exist. As a result of the lost of business, the facility has cleaned out 20 product storage tanks at the facility, and is currently only using six tanks for their operation.

The process of making the coal tar pitch saleable requires that the facility changes its form from a solid to a liquid material. The raw material is stored in a large metal building onsite. The material is placed on a conveyor belt and is fed in to a heating unit. The material is heated to about 350 ° F to turn the material into a liquid. The liquid material is then placed into tanker trucks for transportation. Currently, the facility is shipping out three truck loads per day, three to four days per week. Mr. Turner and I toured the facility and there was no activity going on at the time. There were no waste drums in storage. The majority of the tanks that had been cleaned out were labeled as being "out-of service". There were some drums stored on the west side of the building but these drums were empty. We then toured the raw product area where dry coal tar is stored. During my past inspections at the facility there were large piles of material in this building. This time there were some very small piles of materials which mostly appeared to be residues of previously heated materials. There was metal crating in between the asphalt floor and the walls. A fair amount of dry coal tar had collected in these areas. A spill of previously heated coal tar was observed on the floor in this building. I asked Mr. Turner about this spill. He said that one the truck was overweight so it was returned to the facility to offload the overweight material. They poured off the liquid material on to the floor of the building and allowed it to harden on the asphalt. He said that he was going to scrape up the material and place it back into the process to be reheated and reused. I asked when this spill occurred and he said the material had been there for six weeks. I asked him when they were planning on running the conveyor. I also asked him when it was last operated. He said that they have not used it since the first of the year which is approximately nine months from the date of this inspection.

We toured the remainder of the facility. There were three drums of used oil stored in drum storage area. These drums were labeled and closed at the time of the inspection. There were no drums of hazardous waste found at the facility.

I then performed a records review which I continued on September 14, 2004. The delay was due to a previous appointment Mr. Turner had. I also had some additional questions regarding the paperwork I reviewed. I needed Mr. Kameroner to clarify some of these issues for me. Mr. Kameroner works a part time schedule. I had some questions regarding the process and the waste streams that were generated. The waste codes on the manifests were listed as U051, and D018. The material was shipped in drums as a solid, in 2003. This material did not use the same shipping name as the creosote which is specifically listed. Mr. Kameroner said that waste was the solid coal tar or pencil pitch not the creosote. I asked him if the material had been tested to determine if it fails to TCLP benzene. He said at the time that he assigned the waste codes to the material because it was less expensive to dispose of this waste as a hazardous waste as opposed to testing it. He said he took a more conservative approach to the disposal. I asked if they had any test results for the coal tar or pencil pitch. During this meeting they contacted their corporate environmental manager. She said that she was not sure if they had TCLP data on the coal tar pitch or not. She said that the information was on the MSDS sheet. I explained that they should have lab results to back up what was on the MSDS sheet. However, the purpose of an MSDS is to

sheet is for worker safety issues not disposal. Furthermore the disposal of the material, coal tar is regulated as a hazardous waste in its used form, in the aluminum business it is regulated as a listed waste, for Potliner, K061.

I explained my reasoning for asking the questions related to the coal tar pitch. If the material is a hazardous material that requires reclamation prior to its use, the coal tar which is remaining inside the steel building has the potential to become a hazardous waste under the rules of speculative accumulation. The facility must process 75% of the material within one calendar year. Any material that is not processed then becomes a waste and is subject to a waste determination and management as such. Given that all of the information that the facility has provided regarding this material, it may be a hazardous waste for TCLP benzene. Since the facility has customers that use the product, it would be wise for the company to process and sell the material before the year is over. I explained this during the closing conference for the facility.

Waste Streams:

Coat Tar Pitch: U051, D018: Koppers characterized this waste stream based on knowledge and they have no supporting lab data. It is likely that the waste stream was mischaracterized for the U051 waste code, and that it may or may not fail for the TCLP benzene.

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December 29, 1998

Oregon Department Of Environmental Quality
Northwest Region
2020 SW Fourth Avenue
Suite 400
Portland, OR 97201-4987

Attention: Kathy Amidon

RE: Koppers Industries Inc. - Portland Terminal
Supplemental Information
Air Permit Application No. 26-2930
Multnomah County

Dear Ms. Amidon:

In response to our telephone conversation of December 8, 1998, and my letter to you dated December 22, 1998, I have enclosed the following requested information:

1. List of all tanks which includes tank contents, date of installation and vapor pressure.
2. Hazardous Air Pollutant (HAP) calculation (actual and potential) for the facility.
3. Design of new tanks 200 and 210, including materials to be stored for purpose of determining new source performance standards applicability (40 CFR 60, Kb)

As stated in previous correspondence the Portland Terminal Liquid pitch facility is proposed for construction in two phases. Phase I will consist of addition of a new liquid pitch storage tank (T- 200) and a new 10 MM BTU/Hr hot oil heater. The existing 8.5 MM BTU/HR hot oil heater will be used as a back up unit. Phase II will consist of addition of a liquid pitch storage tank (T-210) and new fume combustion system, if required. Koppers Industries Inc. has prepared HAP calculations for the actual existing units and maximum potential emissions for the existing case and each phase thereafter. The HAP emissions for existing, Phase I and Phase II are well below Title V trigger levels.

A summary of all storage tanks which includes tank contents, date of installation and vapor pressure is enclosed. Tanks containing creosote will be changed to heavy oil storage upon installation of the de-mister unit. The current and future vapor pressures are shown on the table. The proposed new liquid pitch tanks 200 and 210 will not be subject to new source performance standards (40 CFR 60, Kb) because the vapor pressures are below the applicable standards.

A "Property Site Plan" indicating tank location is provided.

KII plans to commence construction of tank T-200 and the new hot oil heater on or about January 18, 1999. Therefore, KII will submit a "Notice of Intent to Construct". This notice will be submitted separately.



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See instructions on back. Call 1-800-PICK-UPS (800-742-5877) for additional information.

TRACKING NUMBER **N191 324 042 4**

1 SHIPMENT FROM

SHIPPER'S UPS ACCOUNT NO. **3207036605** UPS SHIPPER NO. / UPS BILLING NO. **485X82**
REFERENCE NUMBER

NAME **Traci I. Self** TELEPHONE **412-227-2888**
COMPANY **KOPPERS INDUSTRIES**
STREET ADDRESS **436 7TH AVE**
CITY AND STATE **PITTSBURGH PA** ZIP CODE **152191800**

2 EXTREMELY URGENT DELIVERY TO

NAME **Ms. Kathy Amidon** TELEPHONE
COMPANY **Oregon Dept. of Environmental Quality**
STREET ADDRESS **Northwest Region**
DEPT./FLOOR
2020 SW Fourth Avenue, Suite 400
CITY AND STATE (INCLUDE COUNTRY IF INTERNATIONAL) **Portland, OR** ZIP CODE **97201-4987**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 00

3	WEIGHT AND ZONE	WEIGHT ENTER "LTR" IF LETTER	DIMENSIONAL WEIGHT If Applicable	ZONE	SHIPPER'S COPY
				1 0 8	
4	TYPE OF SERVICE	<input checked="" type="checkbox"/> NEXT DAY AIR <input type="checkbox"/> WORLDWIDE EXPRESS (INTERNATIONAL)			CHARGES
		FOR WORLDWIDE EXPRESS SHIPMENTS Mark an "X" in this box if shipment only contains documents of no commercial value.			\$
5	OPTIONAL SERVICES	<input type="checkbox"/> SATURDAY PICKUP <input type="checkbox"/> SATURDAY DELIVERY See instructions.			\$
		<input type="checkbox"/> DECLARED VALUE Contents are automatically protected up to \$100. For declared value over \$100, see instructions.			\$
		<input type="checkbox"/> C.O.D. If C.O.D., enter amount to be collected and attach completed UPS C.O.D. tag to package.			\$
6	ADDITIONAL HANDLING CHARGE	<input type="checkbox"/> An Additional Handling Charge applies for certain items. See instructions.			\$
	TOTAL CHARGES				\$
7	METHOD OF PAYMENT	<input checked="" type="checkbox"/> BILL SHIPPER <input type="checkbox"/> BILL RECEIVER <input type="checkbox"/> BILL THIRD PARTY <input type="checkbox"/> CREDIT CARD <input type="checkbox"/> American Express <input type="checkbox"/> Diner's Club <input type="checkbox"/> MasterCard <input type="checkbox"/> Visa			CHECK <input type="checkbox"/> UPS USE (CASH) <input type="checkbox"/>
8	RECEIVERS / THIRD PARTYS UPS ACCT. NO. OR MAJOR CREDIT CARD NO.				EXPIRATION DATE
	THIRD PARTY'S COMPANY NAME				
	STREET ADDRESS				
	CITY AND STATE				ZIP CODE
9	SHIPPER'S SIGNATURE	X Traci Self			DATE OF SHIPMENT 12/29/98

2-84991-2

UPS WORLDWIDE EXPRESS TERMS AND CONDITIONS

United Parcel Service through its affiliates (the "carrier") is engaged in the international transportation of small packages in UPS Worldwide Express. Each package shall be considered a separate and distinct shipment.

Commodities Handled and Restrictions upon Service

The carrier offers transportation of general commodities, as usually defined, subject to the following restrictions:

- No service shall be rendered in the transportation of articles of unusual value. The maximum value or declared value for an international service package is \$50,000 U.S. and the maximum carrier liability is \$50,000 U.S. except for packages containing jewelry (other than costume jewelry) in which case the maximum value or declared value is \$500 U.S. per package and the maximum carrier liability per package is \$500 U.S.
- Refer to the applicable service guide for weight and size restrictions.
- No service shall be rendered in the transportation of any of the prohibited articles listed in the applicable service guide.
- The carrier does not provide a protective service for the transportation of perishable commodities or of commodities requiring protection from heat or cold. Such commodities will be accepted for transportation solely at the shipper's risk for damage occasioned by exposure to heat or cold.

Prohibited by Law

No service shall be rendered by the carrier in the transportation of any shipment which is prohibited by law or regulation of any federal, state, provincial, or local government in the origin or destination countries.

Right of Inspection

The carrier reserves the right to open and inspect any package tendered to it for transportation.

Refusal of Packages

The carrier reserves the right to refuse any package which by reason of the dangerous or any other character of its contents is liable, in the judgement of the carrier, to soil, stain, or otherwise damage other merchandise or equipment, for which it is economically or operationally impracticable to transport, or which is improperly packed or wrapped.

Packages must be so packed or wrapped as to pass the tests set forth in National Safe Transit Project 1-A.

Services Not Provided

C.O.D., Call Tag, and Delivery Confirmation services are not provided for international shipments.

Provisions for Customs Clearance

The shipper must provide required documentation for customs clearance. By providing required documentation, the shipper certifies that all statements and information relating to transportation and exportation are true and correct. Furthermore, the shipper understands that export and import regulations, including forfeiture and sale may be imposed for making false or fraudulent statements or for the violation of U.S. laws on exportation (see 18 U.S.C. Section 905, 22 U.S.C. Section 401, 18 U.S.C. Section 1001, and 50 U.S.C. App. 2410).

When a shipment is tendered to the carrier, the carrier is solely appointed as the agent for performance of customs clearance, where allowed by law. The carrier is specified as the nominal consignee for the purpose of designating a customs broker to perform customs clearance. Local authorities may require documentation confirming that the carrier has been designated as the nominal consignee.

Customs clearance charges, or other expenses incurred as a result of an action by Customs or other authorities, or by the shipper or consignee, to provide proper documentation or to obtain a required license or permit will be charged to the consignee along with any applicable duty and tax. However, the shipper is liable for payment in the event of non-payment by the consignee. The carrier provides brokerage service at no additional charge for routine customs clearance of Express and Expedited shipments. Additional charges may apply for complex customs clearance procedures which include, but are not limited to, the following:

Clearance procedures involving a government agency other than Customs

Customs Bonds**Drawback**

Formal entries involving more than five tariff lines

Live Entries**Marking Attendance****Temporary Importation (T.I.G.)****Correction of Wrong Address**

If the carrier is unable to deliver any package because of an incorrect address, the carrier will refer to the telephone directory and make every other reasonable effort to secure the correct address. If the correct address is secured and found to be in the same destination country, the shipper will be notified of the correction, and an additional charge, as stated on the then current rate chart, will be assessed for delivery or attempted delivery to the correct address.

Postal Code and Telephone Number

The consignee's postal code, telephone number, and contact name are essential information. To ensure prompt delivery, always include postal code, telephone number, and contact name on the UPS Air Shipping Document.

Delivery Attempts

If the carrier is unable to make delivery of a shipment, a non-delivery notice will be left at the consignee's address during the delivery attempt. Thereafter, a second and, if necessary, a third attempt to deliver will be made without additional charge.

Interruption of Service

The carrier shall not be liable for any interruption of delivery service due to causes beyond the carrier's control, or to strikes, lockouts, or other labor disputes.

Return of Undeliverable Packages

Air shipments refused by consignees, or which for any other reason cannot be delivered, will be held and the shipper will be contacted for further instructions. The shipper will be responsible for payment of all other charges, including, but not limited to, forwarding, disposal, or return air transportation charges, as well as any duty and tax, if applicable.

Rates

See the applicable rate chart in effect at the time of shipping for rates. Transportation charges exceed the charges for UPS Letters, and are based on the gross weight of the shipment or its dimensions (whichever is greater) and the weight of the shipment. Dimensional weight is based on the current International Air Transport Association (IATA) volumetric standard, which is "sliding charge without notice." When the dimensional weight of a shipment exceeds the actual weight, the shipment must be recorded on a UPS Waybill. Fractions of a pound will be increased to the next full pound.

Payment for Service

The carrier's credit terms require payment of all charges within seven (7) days after receipt of bill of lading. When using a UPS Air Shipping Document, all UPS Worldwide Express shipments are required and all charges must be paid by the shipper.

Worldwide Express Service Guarantee

The carrier guarantees on-schedule delivery of UPS Worldwide Express Service shipments to specific locations in the event the carrier fails to complete delivery or attempt delivery within the carrier's time commitment. The carrier, at the carrier's option, will credit or refund the shipping charges to the shipper upon request, subject to the following conditions:

- The carrier's guaranteed delivery schedule has been obtained by contacting the carrier's Customer Service Office.
- The package bears a proper/complete UPS Air Shipping Document, showing the consignee's correct name, deliverable address, and postal code.
- The shipment is tendered to the carrier during the carrier's published business hours.
- All applicable documentation required by the origin and/or destination country is completed and included with the shipment.
- The carrier ascertained in writing or by telephonic advice (within fifteen (15) calendar days prior to the scheduled delivery) and is advised of the consignee's name and address, date of shipment, package weight, and the UPS Tracking Number.

The guarantee does not apply to shipments which are delayed due to causes beyond the carrier's control, including, but not limited to the following: "The unavailability or refusal of a person to accept delivery of the shipment; acts of God; public authorities acting with actual or apparent authority on the premises; acts or omissions of Customs or similar authorities; failure by the shipper or consignee to provide proper documentation, file, strikes or other labor disputes, civil commotions, disruptions in air or ground transportation networks, such as weather phenomena, and natural disasters.

The carrier provides optional Saturday delivery to locations in Canada which are specified in the UPS guide for service to Canada. The shipment must be recorded on a UPS Waybill to receive Saturday delivery.

Responsibility for Loss of Damage

Unless a greater value for shipment is declared in writing, in the space provided on the UPS Air Shipping Document, the shipper declares the declared value of each shipment to be no greater than \$100 U.S. For each \$100 U.S. or fraction thereof of declared value for insurance per shipment in excess of \$100 U.S., an additional charge, as stated on the rate chart in effect at the time of shipping, will be assessed. Liability for loss or damage is governed by these Terms and Conditions and shall be limited to the amount of the declared value of the shipment up to an amount not exceeding \$100 U.S. per shipment unless a higher value has been declared by the shipper. However, the limits relating to liability established by the Convention for the Unification of Certain Rules Relating to International Carriage by Air, signed at Warsaw, Poland on October 12, 1929, and any amendments thereto shall apply to the international carriage of any shipment hereunder insofar as the same is governed thereby. Except if otherwise directed by the shipper, the carrier will remit excess valuation charges to an insurance company or companies as a premium for shipper's interest cargo insurance for the shipper's account and on its behalf. When the carrier does so, claims for loss or damage to the shipper's property will be filed and settled by the carrier on behalf of the applicable insurance company. Shipper's Interest Cargo Policies are available for inspection at the office of the carrier. Claims not made within six (6) months after delivery of the package, or in the case of non-delivery, within six (6) months after a reasonable time for delivery has elapsed, shall be deemed waived. The carrier shall not be liable for any consequential or consequential damages.

All shipments are subject to the terms and conditions contained in the UPS tariff which is maintained at local UPS offices. THE RULES RELATING TO LIABILITY ESTABLISHED BY THE WARSAW CONVENTION AND ANY AMENDMENTS HERETO SHALL APPLY TO THE INTERNATIONAL CARRIAGE OF ANY SHIPMENT HEREUNDER INsofar as the same is GOVERNED THEREBY.

December 29, 1998

The Portland terminal is presently using natural gas for the boiler and hot oil heater. However, the terminal is operating under an interruptible gas contract. In the event that natural gas becomes unavailable, diesel fuel must be used in the units. The maximum potential emission calculations for existing units and proposed Phase I and Phase II reflect use of diesel fuel for a maximum period of 12 weeks.

Because of the variability of business projections and uncertainty of obtaining a non-interruptible gas supply, Koppers Industries Inc. is requesting Oregon Department Of Environmental Quality (ODEQ), to permit the Portland facility based on the maximum potential emission calculations listed for Phase I.

If you have, any questions please contact Amos Kameroner at (503) 286-3681 or me at (412) 227-2883.

Sincerely,



Traci L. Self
Environmental Manager

Attachments

cc: Amos Kameroner
Jim Dietz
Kevin Fitzgerald
Steve Smith

Koppers Industries Inc.
Portland Terminal
Tank Summary

Tank ID#	Installation Date	Nominal Capacity (gals)	Contents/(Future Contents)	Vapor Pressure	Future V.P.
POR-T-20	1920	300,000	Storm Water		
POR-T-11	1942	225,000	Storm Water		
POR-T-4	1942	100,000	Storm Water		
POR-T-01	1952	650,000	Storm Water		
POR-T-02	1942	1,000,000	Storm Water		
POR-T-03	1942	100,000	Storm Water		
POR-T-17	1942	20,000	Storm Water		
POR-T-66	1947	100,000	Storm Water		
POR-T-19	1920	20,000	Storm Water		
POR-T-39	1942	20,000	Storm Water		
POR-T-12	1942	56,000	Storm Water		
POR-T-102	1920	9,282	Creosote/(Heavy Oil)	0.0386	0.0302
POR-T-99	1951	200,000	Storm Water		
POR-T-101	1952	759,000	Storm Water		
POR-T-23	1920	20,000	Storm Water		
POR-T-33	1920	45,000	Heavy Oil	0.0302	0.0302
POR-T-34	1942	45,000	Storm Water		
POR-T-53	1920	16,000	Storm Water		
POR-T-65	1947	750,000	Melter/(Liquid Pitch)	0.0077	0.0077
POR-T-67	1947	90,000	Creosote/(Heavy Oil)	0.0386	0.0302
POR-T-74	1920	10,000	Storm Water		
POR-T-V207	1920	15,000	Storm Water		
POR-T-SW-1	1920	45,000	Storm Water		
POR-T-SW-2	1920	45,000	Storm Water		
POR-T-SW-3	1920	45,000	Storm Water		
POR-T-SW-4	1920	45,000	Storm Water		
POR-T-SW-5	1920	20,000	Storm Water		
POR-T-SW-6	1920	20,000	Storm Water		
POR-T-68	1947	245,000	Liquid Pitch	0.0185	0.0185
POR-T-18	1920	20,000	Storm Water		
POR-T-200	1999	2,000,000	Empty/(Liquid Pitch)		0.0121
POR-T-210	2000	2,000,000	Empty/(Liquid Pitch)		0.0121

Actual Emissions from Existing Units
Koppers Industries, Inc., Portland Terminal

Unit	Comments	Commodity	NOx (lb/hr)	NOx Tons/Yr	VOC (lb/hr)	VOC Tons/Yr	CO (lb/hr)	CO Tons/Yr	SO2 (lb/hr)	SO2 Tons/Yr	PM-10 (lb/hr)	PM-10 Tons/Yr
Atlas Boiler		Gas	2.82	2.04	0.06	0.04	0.70	0.51	0.08	0.06	0.12	0.09
Hot Oil Heater		Gas	0.81	0.59	0.04	0.08	0.17	0.12	0.03	0.02	0.04	0.03
Fume Recovery System ^{1,2}		NA			12.47	13.01						
Tank 33		Heavy Oil			0.37	0.011						
Tank 67		P1/P13 Distillate			1.18	0.024						
Loading Tank 67 to Rail		P1/P13 Distillate			1.71	0.003						
Fugitives		NA			0.98	0.266						
Plant Total			3.63	2.63	16.81	13.43	0.88	0.63	0.11	0.08	0.16	0.12

NOTES

¹ The fume recovery system receives emissions from the following units: T-68, T-65, railcar loading and tank car loading.

² Hourly and annual VOC emissions from the fume recovery system were calculated using ChemCAD. Annual VOCs were adjusted by 1997 actual operating hours over 8,760 hours.

**Actual HAP Emissions from Existing Units
Koppers Industries, Inc., Portland Terminal**

Unit	Benzene (lb/yr)	Toluene (lb/yr)	Ethylbenzene (lb/yr)	p-Xylene (lb/yr)	m-Xylene (lb/yr)	Phenol (lb/yr)	m-Cresol (lb/yr)	p-Cresol (lb/yr)	o-Cresol (lb/yr)	Naphthalene (lb/yr)	Quinoline (lb/yr)	Biphenyl (lb/yr)	Dibenzofuran (lb/yr)	Total HAPs (lb/yr)
Atlas Boiler														
Hot Oil Heater														
Fume Recovery System 1,2										2,521.03	189.67	235.45	1,534.53	4,480.68
Tank 33										0.02	0.02	0.08	0.47	0.58
Tank 67	2.10	1.64	0.71	0.66	0.64	0.09	0.05	0.05	0.10	21.62	0.96	0.63	1.87	31.11
Loading Tank 67 to Rail	0.28	0.22	0.10	0.09	0.09	0.01	0.01	0.01	0.01	2.91	0.13	0.09	0.25	4.18
Fugitives	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.03	0.04	0.11	0.43
Plant Total	2.38	1.86	0.81	0.75	0.72	0.10	0.06	0.06	0.11	2,545.82	190.81	236.29	1,537.23	4,516.98
														2.26

LB/YR
TPY

NOTES

1 The fume recovery system receives emissions from the following units: T-68, T-65, railcar loading and tank car loading.

2 Annual HAP emissions from the fume recovery system were calculated using ChemCAD. Annual HAPs were adjusted by 1997 actual operating hours over 8,760 hours.

**Maximum Potential Emissions from Existing Units
Koppers Industries, Inc., Portland Terminal**

Unit	Comments	Commodity	NOx (lb/hr)	NOx Tons/Yr	VOC (lb/hr)	VOC Tons/Yr	CO (lb/hr)	CO Tons/Yr	SO2 (lb/hr)	SO2 Tons/Yr	PM-10 (lb/hr)	PM-10 Tons/Yr
Atlas Boiler ¹		Gas	2.82	12.33	0.06	0.25	0.70	3.08	0.08	0.33	0.12	0.55
		Oil/Gas	3.00	12.52	0.06	0.22	0.75	3.13	10.65	11.31	0.30	1.24
		MAX	3.00	12.52	0.06	0.25	0.75	3.13	10.65	11.31	0.30	1.24
Hot Oil Heater(backup unit) ¹		Gas	0.81	3.57	0.04	0.19	0.17	0.75	0.03	0.14	0.04	0.16
		Oil/Gas	1.22	3.97	0.04	0.16	0.31	0.88	4.33	4.60	0.12	0.43
		MAX	1.22	3.97	0.04	0.19	0.31	0.88	4.33	4.60	0.12	0.43
Fume Recovery System ^{2,3}		NA			12.47	18.11						
Tank 33		Heavy Oil			0.37	0.016						
Tank 67		P1/P13 Distillate			0.59	0.024						
Loading Tank 67 to Rail		P1/P13 Distillate			1.71	0.003						
Fugitives		NA			0.98	0.568						
Plant Total			4.22	16.49	16.22	19.15	1.06	4.01	14.98	15.91	0.42	1.67

NOTES

¹ Combustion units may be run on natural gas or #2 fuel oil. However, fuel oil combustion will occur a maximum of 12 weeks during any given year.

² The fume recovery system receives emissions from the following units: T-68, T-65, railcar loading and tank car loading.

³ Hourly and annual VOC emissions from the fume recovery system were calculated using ChemCAD.

**Maximum Potential HAP Emissions from Existing Units
Koppers Industries, Inc., Portland Terminal**

Unit	Commodity	Benzene (lb/yr)	Toluene (lb/yr)	Pyridine (lb/yr)	Ethylbenzene (lb/yr)	p-Xylene (lb/yr)	m-Xylene (lb/yr)	Phenol (lb/yr)	m-Cresol (lb/yr)	p-Cresol (lb/yr)	o-Cresol (lb/yr)	Naphthalene (lb/yr)	Quinoline (lb/yr)	Biphenyl (lb/yr)	Dibenzofuran (lb/yr)	Total HAPs (lb/yr)
Atlas Boiler ¹	Gas															
	Oil/Gas															
	MAX															
Hot Oil Heater(backup unit) ¹	Gas															
	Oil/Gas															
	MAX															
Fume Recovery System ^{2,3}	NA											3509.33	264.02	327.76	2136.10	6237.22
Tank 33	Heavy Oil											0.03	0.03	0.11	0.68	0.85
Tank 67	P1/P13 Distillate	3.06			0.00			0.00								3.06
Loading Tank 67 to Rail	P1/P13 Distillate	0.23	0.18		0.08	0.07	0.07	0.01	0.01	0.01	0.01	2.33	0.10	0.07	0.20	3.35
Fugitives	NA	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.03	0.04	0.12	0.43
Plant Total		3.28	0.18		0.08	0.07	0.07	0.01	0.01	0.01	0.01	3,511.93	264.19	327.98	2,137.10	6,244.89 LB/YR
																3.12 IPY

NOTES

- ¹ Combustion units may be run on natural gas or #2 fuel oil. However, fuel oil combustion will occur a maximum of 12 weeks during any given year.
- ² The fume recovery system receives emissions from the following units: T-68, T-65, railcar loading and tank car loading.
- ³ Annual HAP emissions from the fume recovery system were calculated using ChemCAD.

Maximum Potential Emissions, Phase I
Koppers Industries, Inc., Portland Terminal

Unit	Comments	Commodity	NOx (lb/hr)	NOx Tons/Yr	VOC (lb/hr)	VOC Tons/Yr	CO (lb/hr)	CO Tons/Yr	SO2 (lb/hr)	SO2 Tons/Yr	PM-10 (lb/hr)	PM-10 Tons/Yr
Atlas Boiler ¹		Gas	2.82	12.33	0.06	0.25	0.70	3.08	0.08	0.33	0.12	0.55
		Oil/Gas	3.00	12.52	0.06	0.22	0.75	3.13	10.65	11.31	0.30	1.24
		MAX	3.00	12.52	0.06	0.25	0.75	3.13	10.65	11.31	0.30	1.24
Hot Oil Heater(backup unit) ¹		Gas	0.81	3.37	0.04	0.19	0.17	0.73	0.03	0.14	0.04	0.16
		Oil/Gas	1.22	3.97	0.04	0.16	0.31	0.88	4.33	4.60	0.12	0.43
		MAX	1.22	3.97	0.04	0.19	0.31	0.88	4.33	4.60	0.12	0.43
Fume Recovery System ^{2,3}		NA			12.47	18.11						
Tank 33		Heavy Oil			0.37	0.016						
Tank 67		Heavy Oil			0.15	0.006						
Fugitives		NA			0.98	0.568						
New Hot Oil Heater ¹		Gas	1.34	5.87	0.03	0.12	0.34	1.47	0.04	0.16	0.06	0.26
		Oil/Gas	1.42	5.96	0.03	0.10	0.36	1.49	5.04	5.34	0.14	0.32
		MAX	1.42	5.96	0.03	0.12	0.36	1.49	5.04	5.34	0.14	0.52
T-200		Liquid Pitch				Note 4						
Plant Total			5.64	22.45	14.10	19.25	1.41	5.50	20.02	21.26	0.56	2.19

NOTES

¹ Combustion units may be run on natural gas or #2 fuel oil. However, fuel oil combustion will occur a maximum of 12 weeks during any given year.

² The fume recovery system receives emissions from the following units: T-68, T-65, T-200, railcar loading and tank car loading.

³ Hourly and annual VOC emissions from the fume recovery system were calculated using ChemCAD.

⁴ VOC Emissions from T-200 are included in the fume recovery system's emissions.

**Maximum Potential HAP Emissions, Phase I
Koppers Industries, Inc., Portland Terminal**

Unit	Commodity	Benzene (lb/yr)	Toluene (lb/yr)	Ethylbenzene (lb/yr)	p-Xylene (lb/yr)	m-Xylene (lb/yr)	Phenol (lb/yr)	m-Cresol (lb/yr)	p-Cresol (lb/yr)	o-Cresol (lb/yr)	Naphthalene (lb/yr)	Quinoline (lb/yr)	Biphenyl (lb/yr)	Dibenzofuran (lb/yr)	Total HAPs (lb/yr)
Atlas Boiler ¹	Gas														
	Oil/Gas														
	MAX														
Hot Oil Heater(backup unit) ¹	Gas														
	Oil/Gas														
	MAX														
Fume Recovery System ^{2,3}	NA										3,509.33	264.02	327.76	2,136.10	6,237.22
Tank 33	Heavy Oil										0.03	0.03	0.11	0.68	0.85
Tank 67	Heavy Oil										0.95	0.03	0.02	0.15	1.15
Fugitives	NA										0.03	0.00	0.00	0.03	0.07
New Hot Oil Heater ¹	Gas														
	Oil/Gas														
	MAX														
T-200 ⁴	Liquid Pitch														
Plant Total											3,510.34	264.09	327.90	2,136.95	6,239.28
															3.12

NOTES

- ¹ Combustion units may be run on natural gas or #2 fuel oil. However, fuel oil combustion will occur a maximum of 12 weeks during any given year.
- ² The fume recovery system receives emissions from the following units: T-68, T-65, T-200, railcar loading and tank car loading.
- ³ Annual HAP emissions from the fume recovery system were calculated using ChemCAD.

Maximum Potential Emissions, Phase II
Koppers Industries, Inc., Portland Terminal

Unit	Comments	Commodity	NOx (lb/hr)	NOx Tons/Yr	VOC (lb/hr)	VOC Tons/Yr	CO (lb/hr)	CO Tons/Yr	SO2 (lb/hr)	SO2 Tons/Yr	PM-10 (lb/hr)	PM-10 Tons/Yr
Atlas Boiler ¹		Gas	2.82	12.33	0.06	0.25	0.70	3.08	0.08	0.33	0.12	0.55
		Oil/Gas	3.00	12.52	0.06	0.22	0.75	3.13	10.65	11.31	0.30	1.24
		MAX	3.00	12.52	0.06	0.25	0.75	3.13	10.65	11.31	0.30	1.24
Hot Oil Heater(backup unit) ¹		Gas	0.81	3.57	0.04	0.19	0.17	0.75	0.03	0.14	0.04	0.16
		Oil/Gas	1.22	3.97	0.04	0.16	0.31	0.88	4.33	4.60	0.12	0.43
		MAX	1.22	3.97	0.04	0.19	0.31	0.88	4.33	4.60	0.12	0.43
Fume Combustion System ^{2,3}		NA			0.49	2.16						
Tank 33		Heavy Oil			0.37	0.016						
Tank 67		Heavy Oil			0.15	0.006						
Fugitives		NA			0.98	0.568						
New Hot Oil Heater ¹		Gas	1.34	5.87	0.03	0.12	0.34	1.47	0.04	0.16	0.06	0.26
		Oil/Gas	1.42	5.96	0.03	0.10	0.36	1.49	5.04	5.34	0.14	0.52
		MAX	1.42	5.96	0.03	0.12	0.36	1.49	5.04	5.34	0.14	0.52
T-200		Liquid Pitch				Note 4						
T-210		Liquid Pitch				Note 4						
Plant Total	Maximum		5.64	22.45	2.12	3.30	1.41	5.50	20.02	21.26	0.56	2.19

NOTES

- ¹ Combustion units may be run on natural gas or #2 fuel oil. However, fuel oil combustion will occur a maximum of 12 weeks during any given year.
- ² The fume combustion system receives emissions from the following units: T-68, T-65, T-200, T-210, railcar loading and tank car loading.
- ³ Hourly and annual VOC emissions from the fume recovery system were calculated using ChemCAD.
- ⁴ VOC Emissions from T-200 and T-210 are included in the fume combustion system's emissions.

**Maximum Potential HAP Emissions, Phase II
Koppers Industries, Inc., Portland Terminal**

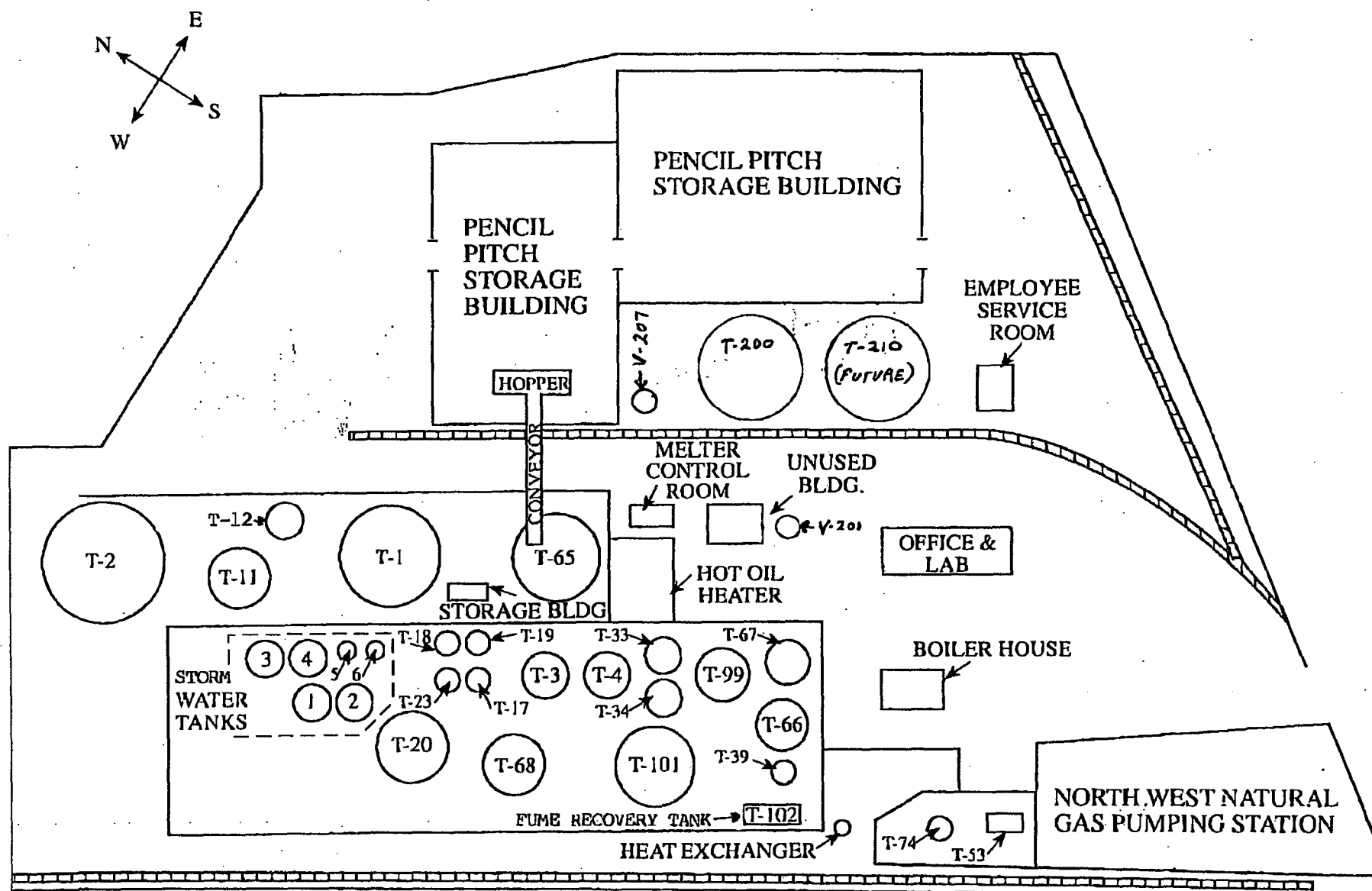
Unit	Commodity	Benzene (lb/yr)	Toluene (lb/yr)	Ethylbenzene (lb/yr)	p-Xylene (lb/yr)	m-Xylene (lb/yr)	Phenol (lb/yr)	m-Cresol (lb/yr)	p-Cresol (lb/yr)	o-Cresol (lb/yr)	Naphthalene (lb/yr)	Quinoline (lb/yr)	Biphenyl (lb/yr)	Dibenzofuran (lb/yr)	Total HAPs (lb/yr)
Atlas Boiler ¹	Gas														
	Oil/Gas														
	MAX														
Hot Oil Heater(backup unit) ¹	Gas														
	Oil/Gas														
	MAX														
Fume Combustion System ^{2,3}	NA										0.43				0.43
Tank 33	Heavy Oil										0.03	0.03	0.11	0.68	0.85
Tank 67	Heavy Oil										0.95	0.03	0.02	0.15	1.15
Fugitives	NA										0.03	0.00	0.00	0.03	0.07
New Hot Oil Heater ¹	Gas														
	Oil/Gas														
	MAX														
T-200 ⁴	Liquid Pitch														
T-210 ⁴	Liquid Pitch														
Plant Total											1.44	0.06	0.14	0.85	2.50 LB/YR 0.001 TPY

NOTES

¹ Combustion units may be run on natural gas or #2 fuel oil. However, fuel oil combustion will occur a maximum of 12 weeks during any given year.

² The fume combustion system receives emissions from the following units: T-68, T-65, T-200, T-210, railcar loading and tank car loading.

³ Annual HAP emissions from the fume recovery system were calculated using ChemCAD.

**PROPERTY SITE PLAN**



Koppers Industries, Inc.
436 Seventh Avenue
Pittsburgh, PA 15219-1800

Telephone: (412) 227-2001
Fax: (412) 227-2423

August 21, 1997

DEQ Business Office
Oregon Department of Environmental Quality
811 SW Sixth Avenue
Portland, OR 97204

Attention: **Ms. Kathy Amidon**
 Environmental Specialist
 Air Quality Section

Re: Air Permit Initial Application
 Multnomah County; File No. 26-2930
 Industrial Boiler

Dear Ms. Amidon:

We were advised by the DEQ that a review of the Agency's files revealed that a previous air permit for the manufacture of industrial chemicals was canceled by the Department in June 1977 and that no provision was made to issue a permit for the boiler that remained operational. Due to this oversight by the Department no enforcement action would be taken against Koppers as long as a permit application is submitted for the existing boiler.

Enclosed are the appropriate permitting forms along with check #270594 in the amount of four thousand nine hundred forty-seven dollars (\$4,947.00) to cover payment of the total fees associated with the filing, permitting, application processing, and the compliance determination. This submittal contains duplicate copies of the following completed forms and other informational material for the subject facility:

- ☐ DEQ Supplemental Information Form;
- ☐ Form AQ101 Administrative Information;
- ☐ Form AQ102 Facility Description;
- ☐ Form AQ210 for Fuel Burning Devices;
- ☐ Form AQ402 Plant Site Emission Detail - Current/Future Operations
- ☐ Summary Spreadsheet for site maximum potential emission
- ☐ USGS map of facility location;
- ☐ Site Plan for present Koppers Industries, Inc. Portland Plant
- ☐ Site Plan for future ship unloading additions to KII Portland Plant

If you have any questions, please call Mr. Amos Kamerer, Plant Manager, at 503-286-3681 or me at 412-227-2883.

Sincerely yours,

William E. Swearingen
Manager, Environmental Programs

Enclosures

cc: A. S. Kamerer, Portland Plant

bcc: W. W. Turner, K-1600
 R. D. Collins, K-1700
 S. T. Smith, K-1800

C:\WPWIN60\PORTLAND\AIR_BOIL.LTR

Koppers003740

THE BACK OF THIS DOCUMENT CONTAINS AN ARTIFICIAL WATERMARK - HOLD AT AN ANGLE TO VIEW

**KOPPERS
INDUSTRIES**

270594 62-4
311

DATE: AUGUST 21 1997

PAY TO THE ORDER OF: OREGON ST DEPT ENVIRON QUALITY

\$4,947.00

FOUR THOUSAND NINE HUNDRED FORTY SEVEN AND 00/100 ONLY

OREGON ST DEPT ENVIRON QUALITY

811 S W SIXTH AVE
PORTLAND OR 97204

Payable through Mellon Bank (DE) N.A., Wilmington, DE 19899
Mellon Bank (East) N.A., Philadelphia, PA 19102

DE No *McClure*
KOPPERS INDUSTRIES, INC.
V.P. AND C.F.O. TREASURER

⑈ 270594 ⑈ ⑆ 031100047⑆ 2⑈943 678⑈

KOPPERS INDUSTRIES, INC. PITTSBURGH PA

270594

SP	CD	VENDOR	DIV	OUR	AUDIT	YOUR	INVOICE	NBR	MO/DA	INV	AMOUNT	DISC	NET AMT
													PAYABLE
*****		967125006	483	48370800155	MDA	AIR	PERMIT		0820		4947.00	0.00	***4947.00

Koppers003741



OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
SUPPLEMENTAL INFORMATION FORM

AIR, WATER, SOLID WASTE AND HAZARDOUS WASTE
PERMITS AND REGISTRATIONS
MODIFICATIONS TO EXISTING FACILITIES

Unnecessary delays during permit review or facility construction often can be eliminated when potential issues and areas of overlap are identified early in the permit process. With this in mind, the Oregon Department of Environmental Quality (DEQ) is testing an integrated approach to permit processing. The purpose of this "cross-media" approach is to help the applicant determine which pre-construction environmental permits will be needed, and help DEQ expedite the permit process. The approach also helps the applicant and DEQ analyze potential impacts of the proposed modification on all environmental areas of concern; helps prevent any inadvertent transfer of pollutants from one media to another, such as from air to land; provides an opportunity to look at overall environmental impacts from a facility and net environmental benefits from a proposal; and increases opportunities to identify pollution prevention alternatives.

The following questions are meant to be a screening tool to help identify potential areas of concern and, if necessary, help DEQ establish a cross-media workgroup for your facility. If you are unsure which regulations apply to your facility, several DEQ publications and technical assistance programs can help you find answers. For a copy of the Oregon Environmental Permits Handbook, or if you have other questions, please telephone the person identified in the cover letter included with this form. You also can telephone DEQ's Technical Assistance and Service Coordinator at (503) 229-5946, or toll-free (800) 452-4011, to be referred to the appropriate program or to arrange a pre-application meeting with permit program staff.

1. Name of Facility Koppers Industries, Inc.
Address or Location of Facility 7540 NW St. Helens Road
Portland, OR 97210-3663
Latitude/Longitude or other precise locational data for the facility, if available (*if you need assistance in determining latitude and longitude coordinates, please contact DEQ at 229-5946*)
Latitude 45:34:38 Longitude 122:45:32
Name of Contact Person Amos S. Kamerer
Phone Number of Contact Person 503-285-3681
2. Please briefly tell us what kind of business you operate (principal products and services).
Terminal operations for creosote and coal tar pitches.
3. Please list any local, state or federal environmental permits or registrations you may have from the list below. Please check all that apply. *Please enter the permit or registration number if available (or just indicate YES if the number is not readily available); or indicate N/A if the permit does not apply to your facility.* Please indicate which of these permits you intend to apply for or modify at this time.
 - a. Air Permit (air emissions) ☒ yes ☐ N/A
Permit Number, if known _____ modify? ☐ yes ☐ no

- b. Indirect Source Construction Permit (large parking lots) ☐ yes ☒ N/A
Permit Number, if known _____ *modify?* ☐ yes ☐ no
- c. Wastewater Discharge Permit (state or federal) ☐ yes ☒ N/A
Permit Number, if known _____ *modify?* ☐ yes ☐ no
- d. Wastewater Pretreatment Permit (local) ☐ yes ☒ N/A
Permit Number, if known _____ *modify?* ☐ yes ☐ no
- e. Hazardous Waste Generator Registration ☐ yes ☒ N/A
EPA ID Number, if known _____ *modify?* ☐ yes ☐ no
- f. Hazardous Waste Permit (RCRA Part B) ☐ yes ☒ N/A
- g. Solid Waste Disposal Permit ☐ yes ☒ N/A
Permit Number, if known _____ *modify?* ☐ yes ☐ no
- h. Underground Storage Tank Registration ☐ yes ☒ N/A
Permit Numbers, if known _____ *modify?* ☐ yes ☐ no
- i. Environmental Cleanup/Superfund Site ☐ yes ☒ N/A
- j. Voluntary Cleanup Registration ☐ yes ☒ N/A

4. Please describe the proposed modification to your facility. This "systems design" should include a description of the proposed changes to the facility; input chemicals and approximate amounts used; anticipated volumes of wastes, emissions or discharges to the air, water and land; proposed control technologies; and any new energy sources that might be needed. If you treat your wastes prior to discharge or release, please indicate how you plan to manage or dispose of treatment residuals (ash, filters, sludge, leachate, etc.). Please use a separate sheet for your description.

5. Many companies are able to design their facilities and processes to minimize the amount of chemicals used and pollutants discharged to the environment. This information may be helpful in the permit review process and public hearings. Have you incorporated any pollution prevention concepts and technologies into the design of your facility?

☒ yes ☐ no ☐ don't know

Paving at potential spill areas. Recycle spill material.

If yes, please briefly describe the design elements and pollutant reductions anticipated.

Also include any pollution prevention activities already implemented in your facility. Please use a separate sheet for your description.

If you would you like any information (written publications, videos, etc.) about pollution prevention from our Waste Reduction Assistance Program, please call (503) 229-5913, or toll-free (800) 452-4011.

6. Facilities applying for environmental permits may encounter public concerns regarding land use, noise, traffic, odors or other community issues. Are you aware of any concerns in your community regarding your facility? ☐ yes ☐ no ☒ don't know

If yes, please indicate what the concerns are and how you plan to address them. Please use a separate sheet for your description.

Thank you for taking the time to fill out this form. If you have any questions, please contact the DEQ staff person listed in the cover letter, or our Technical Assistance and Services Coordinator at (503) 229-5946, or toll-free (800) 452-4011.

(Note: questions 4, 5 and 6 should be answered on a separate sheet of paper.)

FORM AQ101
ADMINISTRATIVE INFORMATION

FOR DEQ USE ONLY

Permit No. _____
Application No. _____
Date Received _____
Type of Application:
EXT NEW RNW MOD SM

1. Legal Company Name Koppers Industries, Inc. Legal Company Name 436 Seventh Avenue Mailing Address Pittsburgh, PA 15219-1800 City, State, Zip Code 412-227-2001 Area Code and Telephone Number	2. Facility Name (if different from legal company name) Koppers Industries, Inc. Facility Name 7540 NW St. Helens Road Mailing Address Portland, OR 97210-3663 City, State, Zip Code 503-285-3681 Area Code and Telephone Number
3. Facility Location SAME Street Address (if different from mailing address) City, Zip Code Multnomah County	4. Site Contact Amos S. Kamerer; Plant Mgr. Name and Title of Contact Person at Site 503-285-3681 Area Code and Telephone Number
5. Government Facility Indicator 	6. Other DEQ Permits NPDES Permit No. 100419

Signature <i>I hereby apply for permission to discharge air contaminants in the State of Oregon, as stated or described in this application, and certify that the information contained in this application, and the schedules and exhibits appended hereto, are true and correct to the best of my knowledge and belief.</i> Amos S. Kamerer Name of official (printed or typed) Signature of official Plant Manager Title of official Date (mm/dd/yy)	
---	--

APPLICATION FEE INFORMATION ON REVERSE. TWO COPIES OF THE COMPLETED APPLICATION MUST BE SUBMITTED, WITH ALL FEES REQUIRED, TO THE DEPARTMENT BUSINESS OFFICE: 811 SW SIXTH AVENUE, PORTLAND OR 97204.

Type of Business (OAR 340-28-1750 Table 4 entries).

Industrial Organic Chemicals SIC 2865 or 2869

Fee Information

<u>SIC Code</u>	<u>Application Processing</u>	<u>Compliance Determination</u>	
4961	\$1540.00	\$1332.00	\$2872.00
Standard filing fee			\$75.00
Fee: Permitting Fee		(Permit Fee)	\$2000.00
Fee:			
Fee:			
Fee:			
TOTAL FEES			\$4947.00

Ames - for DEQ
purposes, boilers
are listed as SIC
4961. Vothy

FACILITY DESCRIPTION

1. Facility name <u>Koppers Industries, Inc.</u>	2. Permit # <u>N/A</u>
--	------------------------

3. Description of facility

The plant receives truck, railcar, and barges of creosote, coal tar pitches, and allied coal tar chemicals. These products are stored in heated tanks and shipped to customers in the northwest states via truck and rail transporters.

Due to changing market conditions, KII is planning to add additional heated storage tanks to the facility. The tanks will be heated by a hot oil system. An additional 8.0 million BTU/HR natural gas fired hot oil heater will be needed when the tanks are installed. Potential tank emissions of VOM will be collected and ducted to the proposed new hot oil heater and will be incinerated at a 98% or greater destruction efficiency. A new heated pipeline installation is also planned within the next two years.

4. Seasonal or year-round operation? Year-round operation

5. Operating schedule

24 hours/day

7 days/week

6000 hours/year

6. Attach diagram

7. Attach line/block drawing

8. Attach location map

FUEL BURNING DEVICE

FORM AQ210
ANSWER SHEET

1. Facility name <u>Koppers Industries, Inc.</u>	2. Permit # <u>N/A</u>
--	------------------------

Fuel Burning Device Information

3. ID number #1
4. Existing or future? Existing
5. Date commenced (mm/dd/yy) Circa 1965
6. Date installed/completed (mm/dd/yy) Circa 1965
7. Special controls None
8. Manufacturer North American
9. Description of device Fire tube steam boiler for heating
10. Firing method Normal dual fuel burner

Operating Schedule

11. Seasonal or year-round? Year-round
- a. Months in operation 12
12. Projected maximum hours/day 24
13. Projected maximum days/week 7
14. Projected maximum weeks/year 52

Production Information

15. Rated design capacity (input) 21,000,000 BTU/hr (specify units)
16. Projected maximum annual operation 126,000 M BTU (specify units)

Ash Generation and Disposal Information

17. Quantity generated None tons/yr
18. Description of ash disposal method N/A

FUEL BURNING DEVICE

FORM AQ210
ANSWER SHEETFuel Usage Information

19. Fuel usage	Primary Fuel	Backup A	Backup B	Backup C
a. Type/grade of fuel	Nat. gas	Diesel oil	N/A	N/A
b. Average sulfur content (% by wt.)	0.01 GR/SCF	0.3		
c. Design hourly usage (specify units/hr)	21 MCF/HR	140 GAL/HR		
d. Projected maximum annual usage (units/yr)	184 MMCF/Y	100,000 GPY		

Stack Information

20. Stack height 40 ft
21. Flow rate 4550 dscf/min at maximum firing rate.

Monitoring Information

22. Monitoring equipment
- a. steam pressure gauge (y/n; if y, recorder?) Yes - no recorder
 - b. steam flow gauge (y/n; if y, recorder?) Yes - recorder
 - c. oxygen analyzer (y/n; if y, recorder?) No
 - d. visible emissions monitoring (y/n) No
 - e. sulfur dioxide monitor (y/n) No
 - f. other monitor (y/n; if y, specify; if y recorder?) No

Pollution Control Information

23. Control device(s)? (y/n; if y, identification number(s)) No

PLANT SITE EMISSIONS DETAIL SHEET—CURRENT/FUTURE OPERATIONS

1. Facility name	Koppers Industries, Inc.	2. Permit #	N/A
------------------	--------------------------	-------------	-----

3. Emissions Data

a. Emissions Point	Production Rates		d. Pollutant	Emission Factors			Emissions	
	b. Short-term (specify)	c. Annual (specify)		e. Short-term	f. Long-term	g. Reference(s)	h. Short-term (specify)	i. Annual (tons/yr)
#1	21.0 MBTU/HR	4.4 TBTU	NO _x	140 lb/MCF	140 lb/MCF	DEQ	2.8 lb/HR	12.3 TPY
#1	"	"	VOC	2.8 lb/MCF	2.8 lb/MCF	DEQ	0.05 lb/HR	0.3 TPY
#1	"	"	CO	35 lb/MCF	35 lb/MCF	DEQ	0.7 lb/HR	3.1 TPY
#1	"	"	PM	2.5 lb/MCF	2.5 lb/MCF	DEQ	0.05 lb/HR	0.2 TPY
#1	"	"	SO ₂	3.8 lb/MCF	2.6 lb/MCF	DEQ	0.05 lb/HR	0.2 TPY

MAXIMUM POTENTIAL EMISSION PORTLAND TERMINAL

SOURCE		INPUT	FUEL	FUEL	NOx	NOx	VOC	VOC	CO	CO	SO2	SO2	PM	PM
		MM BTU/Hr		USED	lb/MMcuft	Tons/Yr	lb/MMcuft	Tons/Yr	lb/MMcuft	Tons/Yr	lb/MMcuft	Tons/Yr	lb/MMcuft	Tons/Yr
Atlas Boller	long term	21	N Gas/Oil	Gas	140	12.334	2.800	0.247	35.000	3.084	3.800	0.335	2.500	0.220
	short term	21		Gas	140						2.600	0.229		
Hot Oil Heater	long term	8.5	N Gas/Oil	Gas	100	3.566	5.300	0.189	20.000	0.713	3.800	0.136	2.500	0.089
New H. O. Heater	long term	8	N Gas/Oil	Gas	100	3.356	5.300	0.178	20.000	0.671	3.800	0.128	2.500	0.084
						0.000		0.000		0.000		0.000		0.000
New Pitch Tanks	no controls					0.000		20.040		0.000		0.000		0.000
	98% control					0.000		0.401		0.000		0.000		0.000
ProcessTotals						6.922		0.768		1.384		0.263		0.173
Plant Total						19.257		1.014		4.468		0.598		0.393

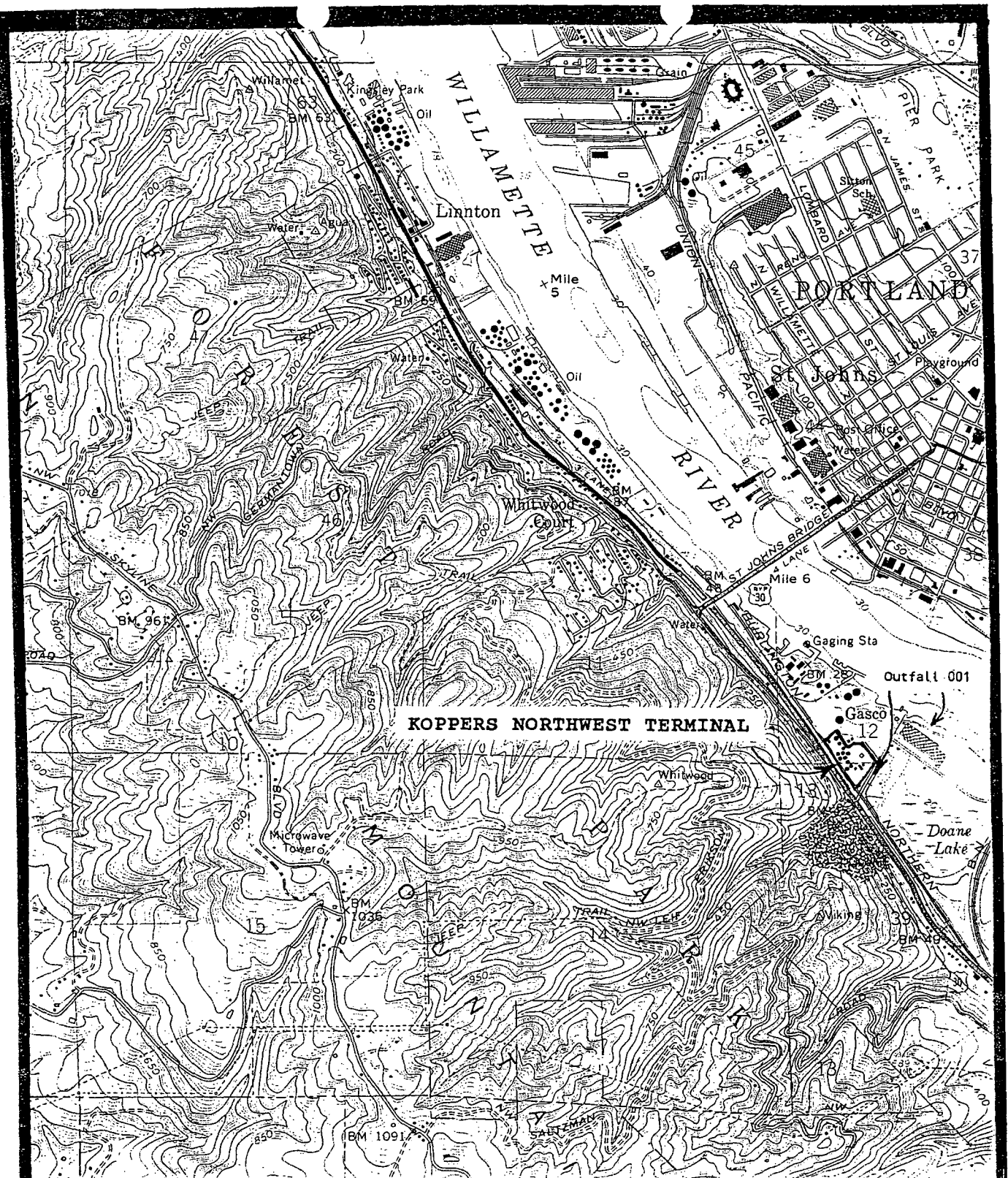
Natural Gas = 1044 BTU/cuft

SO2 long term maximum based on 13,200 grains sulfur per millin cubic feet natural gas, determined by Northwest supply.

SO2 short term maximum based on 9,100 grains sulfur per millin cubic feet natural gas, determined by Northwest supply.

Emission factors are taken from DEQ table - Air Quality Division 2/23/93

Calculation for criteria pollutants = (max input in mm BTU/hr) X (Criteria emission factor) X (8760 hrs/yr)/(2000 lbs/ton * 1044 BTU/SCF)



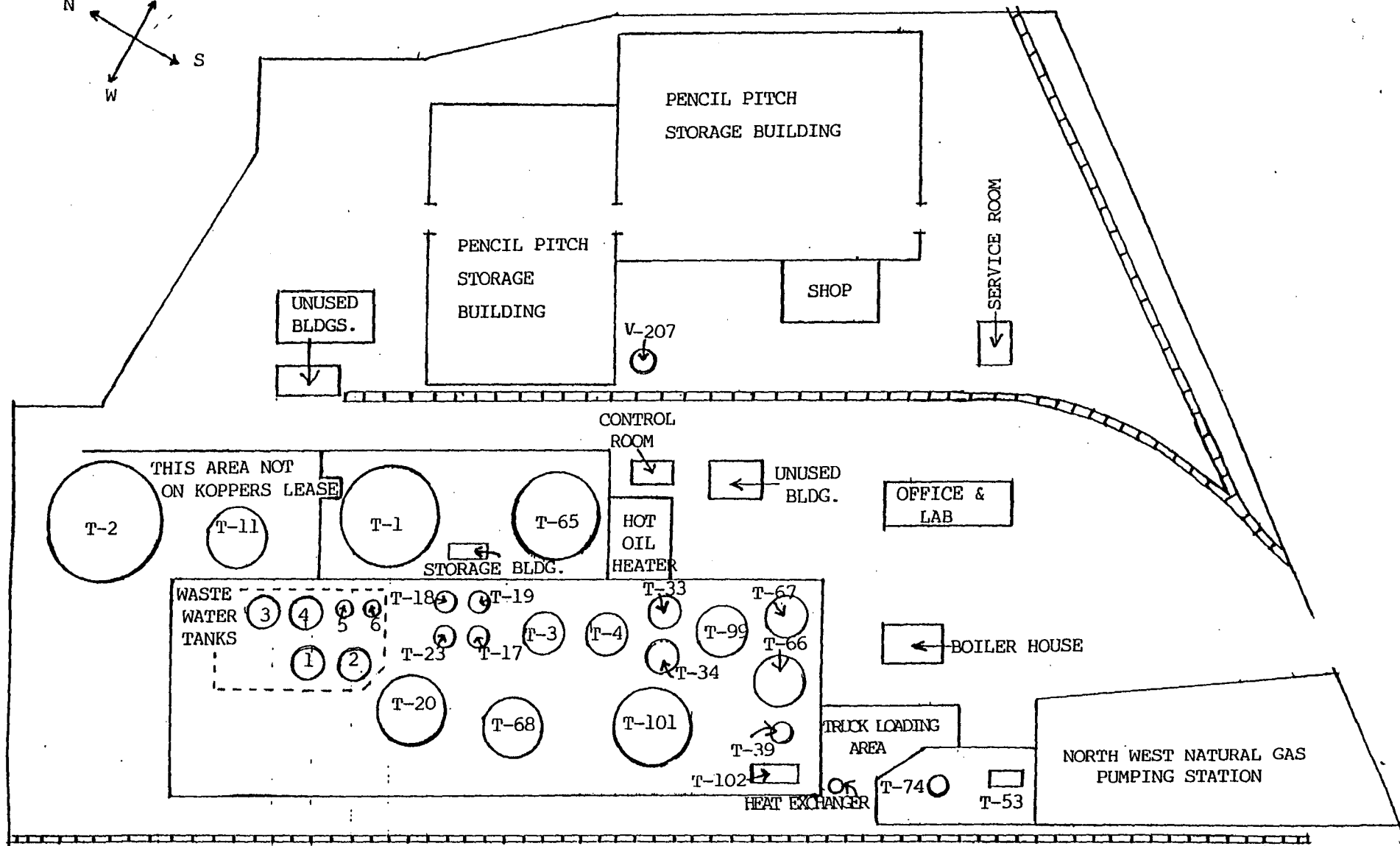
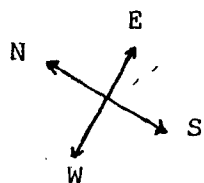
**KOPPERS
INDUSTRIES**

PITTSBURGH, PA

NORTHWEST TERMINAL

**LATITUDE: 045D 34M 38S
LONGITUDE: 122D 45M 32S**

**USGS MAP
LINNTON
QUADRANGLE
OREGON
SERIES 7.5 MIN**



SITE PLAN

KOPPERS INDUSTRIES INC., PORTLAND, OREGON

12/95

Page 35

Koppers003752

Copy of 1997 submittal
for reference.

Needs to be returned
to Portland when
the mass sheets are
completed

KOPPERS INDUSTRIES

Koppers Industries, Inc.
436 Seventh Avenue
Pittsburgh, PA 15219-1800

Telephone: (412) 227-2001
Fax: (412) 227-2423

August 1, 1997

DEQ Business Office
811 SW Sixth Avenue
Portland, OR 97204

EXPRESS MAIL
Deliver 8/4/97

Attention: Mr. Elliott Zais

Re: Renewal Application
NPDES Permit No. 101003
File No. 47430
Multnomah County
OR 000077-9

Dear Mr. Zais:

Enclosed is check #270572 in the amount of One thousand twenty-five dollars (\$1,025) to cover the \$50.00 filing fee and the \$975.00 processing fee and the following completed forms for the subject facility:

- ☑ DEQ application form;
- ☑ EPA Form 2C NPDES;
- ☑ Facility waste water flow plan;
- ☑ USGS map of facility location;
- ☑ CHEMCOA 1035-A material safety data sheet.

Terminal operations and stormwater handling and treatment have not changed significantly since the issuance of the current permit. No wastewater is generated from operating processes at this facility; however, a minor amount of wash water is generated from time to time from vehicle cleaning. The resultant solids/water mixture is drained to a catch basin to recover the reusable product. This equipment cleaning operation has been added to the waste water flow plan for this facility. The cleaning procedure is enhanced if a proprietary cleaner (CHEMCOA 1035-A) is sprayed on the vehicle prior to hosing it down with city water. Vehicle washing occurs approximately six to seven times per year; hence KII anticipates that CHEMCOA 1035-A usage would be less than 55 gallons per year. Since the primary purpose of the equipment cleaning is to remove solid particles (which are recovered and recycled) rather than oils, KII believes that oil emulsification will not be a significant problem and requests that the use of CHEMCOA 1035 be provided for in the renewed NPDES permit. Attached is a Material Safety Data Sheet for CHEMCOA 1035.

You may recall that heavy rainfall caused flooding in the plant several times over the past five years and resulted in shut down of the operations due to our inability to remove stormwater fast enough. Improvements to the stormwater handling facilities at the plant are underway and will be completed by year end. These improvements will not change the current methods of treatment but will increase the maximum discharge rate of stormwater from 120 gpm to approximately 700 gpm.

These matters notwithstanding, KII believes that the current outfall limitations provide adequate protection to the environment and achieves a reasonable cost benefits ratio. We encourage the Agency to reissue the NPDES permit with the modifications that were requested while maintaining the existing outfall limitations.

If you have any questions, please call Mr. Amos Kameron, Plant Manager, at 503-286-3681 or me at 412-227-2883.

Sincerely yours,


William E. Swearingen
Manager, Environmental Programs

Enclosures

cc: A. S. Kameron, Portland Plant

C:\WPWIN60\PORTLAND\NPDES\DEQ.LTR

Koppers003755

THE BACK OF THIS DOCUMENT CONTAINS AN ARTIFICIAL WATERMARK - HOLD AT AN ANGLE TO VIEW

**KOPPERS
INDUSTRIES**

270572 62-4
311

DATE: JULY 30 1997

PAY TO THE ORDER OF: OREGON ST DEPT ENVIRON QUALITY
ONE THOUSAND TWENTY FIVE AND 00/100 ONLY

\$1,025.00

OREGON ST DEPT ENVIRON QUALITY
ATTN: BUSINESS OFFICE
811 S W SIXTH AVE
PORTLAND OR 97204

Payable through Mellon Bank (DE) N.A., Wilmington, DE 19899
Mellon Bank (East) N.A., Philadelphia, PA 19102

KOPPERS INDUSTRIES, INC.
V.P. AND C.F.O. TREASURER

⑈ 270572⑈ ⑆031100047⑆ 2⑈943 678⑈

270572

KOPPERS INDUSTRIES, INC. PITTSBURGH PA

SP
CD VENDOR DIV OUR AUDIT YOUR INVOICE NBR INV MO/DA INV AMOUNT DISC NET AMT
PAYABLE

7 967125006 483 48370700298 MDA NPDES RENEWAL 0730 1025.00 0.00 ***1025.00

Koppers003756

DEQ USE ONLY - REGIONAL OFFICE

Received:

Application No.:

 File No.: 47430

 EPA No.: OR 000017-9

Mail ID #2/#9:

Hydrocode:

DOC Conf:

**APPLICATION
FOR RENEWAL OF
NATIONAL POLLUTANT DISCHARGE
ELIMINATION SYSTEM PERMIT (NPDES-R)**

STATE OF OREGON

(Attach additional sheets if necessary.)

IW - NWR

DEQ USE ONLY - BUSINESS OFFICE

Date Received:

Amount Received:

Check No.:

Deposit No.:

NOTES:

A. REFERENCE INFORMATION

1. Koppers Industries, Inc.
Legal Name of Applicant

Northwest Terminal
Facility Name

2. 7540 Northwest Saint Helens Road
Mailing Address

Portland OR 97210-3663
City State Zip

3. Amos S. Kamerer
Responsible Official

Plant Manager
Title

(503) 286-3681
Address or Location Phone

4. _____
Alternate Responsible Official

_____ Title

_____ Address or Location Phone

5. Present Permit No.: 100419

File No.: 47430

Date Expires: 11/30/97

 6. Enter Site Location by **Latitude and Longitude:**

LATITUDE			LONGITUDE		
1. Deg.	2. Min.	3. Sec.	1. Deg.	2. Min.	3. Sec.
45	34	38	122	45	32

Description of activities requiring a permit from the Department: (Check ALL that apply.)

- ☐ Construction, installation or modification of waste collection, treatment, or disposal facilities.
- ☐ Operation of waste collection, treatment, or disposal facilities.
- ☐ Continued discharge of treated wastewaters into the waters of _____
- ☒ (Other) Stormwater discharged to Willamette River

B. GENERAL QUESTIONS

1. Have the treatment or disposal methods employed, as indicated in previous applications, been altered in any way since the last application was submitted? ☐ Yes ☒ No (If yes, explain: _____)
2. Has the quantity or quality of wastes discharged, as indicated in previous applications, been significantly changed in any way since the last application was submitted? ☐ Yes ☒ No (If yes, explain: _____)

C. SPECIAL QUESTIONS AND REQUESTED INFORMATION

1. If any changes in operations or waste quantity or quality are anticipated in the near future, please attach an explanation or proposal.
2. Please attach a brief report which indicates your progress in meeting the requirements and limitations of your present permit.

I HEREBY CERTIFY THAT THE INFORMATION CONTAINED IN THIS APPLICATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Signature of Legally Authorized Representative
(See Instructions)

Vice President

Title

7/29/97

Date

This form must be accompanied with the appropriate EPA form 2B, 2C, 2D, or 2E.

**INSTRUCTION:
PERMIT RENEWAL APPLICATION**

- A. **Reference Information:** Complete the required information in detail. If there has been a name change, address change or change in personnel since the last application, please make a special note to that effect.
- B. **General Questions:** If more space is needed than provided on the application form, please attach as many additional pages as necessary in order to supply whatever explanation or diagrams are needed to update the treatment and disposal methods used and the characteristics of the waste discharged or otherwise disposed.
- C. **Special Questions and Requested Information:**
1. Please elaborate on any proposed expansions, cutbacks, improvements or changes of any kind that will or may affect the quantity or quality of pollutants discharged.
 2. Each condition of your present permit should be reviewed and an assessment made as to the success you have had in meeting the requirements and limitations.

Signature on Application:

DEFINITION: Signature Line — "Legally Authorized Representative"
<ul style="list-style-type: none">• Corporation — By a principal executive officer of at least the level of vice president.• Partnership or Sole Proprietorship — By a general partner or the proprietor (owner), respectively, or• Municipality, State, Federal, or other Public Facility — By either a principal executive officer or ranking elected official.

Other Instructions:

Submit this application and required fees (attached) as soon as possible. They should be submitted at **least 180 days prior** to the expiration of your present permit.

**Please return Application Fee and Application to: Department of Environmental Quality, Business Office,
811 SW 6th Avenue, Portland, OR 97204**

[illegible]

III. PRODUCTION

☒ YES (complete Item III-B)

☐ NO (to to Section IV)☐ YES (complete Item III-C)

☒ NO (go to Section IV)

1. AVERAGE DAILY PRODUCTION

2. AFFECTED
OUTFALLS
(list outfall numbers)

IV. IMPROVEMENTS☐ YES (complete the following table)

☒ NO (go to Item IV-B)

B. **OPTIONAL:** You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction. ☐ **MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED**

CONTINUED FROM PAGE 2

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding — Complete one set of tables for each outfall — Annotate the outfall number in the space provided.
NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE
Quinoline	Coal Tar Constituent

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☒ YES (list all such pollutants below)

☐ NO (go to Item VI-B)

Total Phenols
Benzene
Toluene
Phenols
Acenaphthene
Acenaphthylene
Chrysene
Fluoranthene
Fluorene
Naphthalene
Phenanthrene
Pyrene

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ YES (Identify the test(s) and describe their purposes below)

☒ NO (go to Section VIII)

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☒ YES (List the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)

☐ NO (go to Section IX)

A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
Columbia Inspection, Inc.	7133 N. Lombard Street Portland, OR 97203	(503) 286-9464	Form 2C Section V Parts A, B, C Full Scan

IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

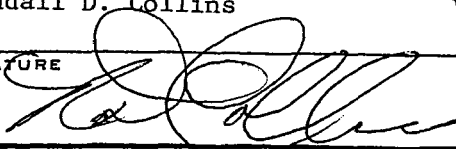
A. NAME & OFFICIAL TITLE (type or print)

Randall D. Collins Vice President

B. PHONE NO. (area code & no.)

(412) 227-2456

C. SIGNATURE



D. DATE SIGNED

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)

ORDO27734359

OUTFALL NO.

001

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT							3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Biochemical Oxygen Demand (BOD)	6						1	mg/l	lbs			
b. Chemical Oxygen Demand (COD)	9						1	mg/l	lbs			
c. Total Organic Carbon (TOC)	7.3						1	mg/l	lbs			
d. Total Suspended Solids (TSS)	<1.0	ND					1	mg/l	lbs			
e. Ammonia (as N)	<1.0	ND					1	mg/l	lbs			
f. Flow	VALUE 175,000		VALUE 27,000		VALUE 18,000		8	N/A	gal	VALUE		
g. Temperature (winter)	VALUE 14		VALUE 14		VALUE		3		°C	VALUE		
h. Temperature (summer)	VALUE 18		VALUE 18		VALUE		3		°C	VALUE		
i. pH	MINIMUM 6.0	MAXIMUM 7.4	MINIMUM 6.0	MAXIMUM 7.4			16	STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'		3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Bromide (24959-67-9)		X	<0.01	ND					1	mg/l	lbs			
b. Chlorine, Total Residual		X	<0.05	ND					1	mg/l	lbs			
c. Color	X		20	N/A					1	Pt-Co	N/A			
d. Fecal Coliform	X		<0.01	ND					1	Colonies 100 ml	N/A			
e. Fluoride (16984-48-8)	X		0.2	0.03					1	mg/l	lbs			
f. Nitrate-Nitrite (as N)	X		<1.0	ND					1	mg/l	lbs			

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'		3. EFFLUENT								4. UNITS		5. INTAKE (optional)		
	a. RECEIVED PRESENT	b. RECEIVED ADJ. SENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	e. CONCENTRATION	f. MASS	g. LONG TERM AVERAGE VALUE	h. NO. OF ANALYSES	i. CONCENTRATION	j. MASS
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS							
g. Nitrogen, Total Organic (as N)	X		<1.0	ND					1	mg/l	lbs				
h. Oil and Grease	X		7.0	14.92	7.0	14.92	1.93	0.29	16	mg/l	lbs				
i. Phosphorus (as P), Total (7723-14-0)	X		0.6	0.876					1	mg/l	lbs				
j. Radioactivity															
(1) Alpha, Total		X	N/A	N/A					0	N/A	N/A				
(2) Beta, Total		X	N/A	N/A					0	N/A	N/A				
(3) Radium, Total		X	N/A	N/A					0	N/A	N/A				
(4) Radium 226, Total		X	N/A	N/A					0	N/A	N/A				
k. Sulfate (as SO ₄) (14808-79-8)	X		7.3	10.66					1	mg/l	lbs				
l. Sulfide (as S)	X		<0.1	ND					1	mg/l	lbs				
m. Sulfite (as SO ₃) (14265-45-3)	X		<1.0	ND					1	mg/l	lbs				
n. Surfactants	X		0.28	0.409					1	mg/l	lbs				
o. Aluminum, Total (7429-90-5)	X		<0.02	ND					1	mg/l	lbs				
p. Barium, Total (7440-39-3)	X		<0.02	ND					1	mg/l	lbs				
q. Boron, Total (7440-42-8)	X		<0.01	ND					1	mg/l	lbs				
r. Cobalt, Total (7440-48-4)	X		<0.03	ND					1	mg/l	lbs				
s. Iron, Total (7439-89-6)	X		1.0	1.46					1	mg/l	lbs				
t. Magnesium, Total (7439-95-4)	X		5.2	7.592					1	mg/l	lbs				
u. Molybdenum, Total (7439-98-7)	X		<0.02	ND					1	mg/l	lbs				
v. Manganese, Total (7439-96-5)	X		1.0	1.46					1	mg/l	lbs				
w. Tin, Total (7440-31-5)	X		<0.07	ND					1	mg/l	lbs				
x. Titanium, Total (7440-32-6)	X		<0.002	ND					1	mg/l	lbs				

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
ORD027734359	001

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (*secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions*), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (*all 7 pages*) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TEST-ING RE-QUIRED	b. BE-LIEVED PRE-SENT	c. BE-LIEVED AB-SENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANAL-YSES	a. CONCENT-RATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANAL-YSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)	X			<0.1	ND					1	mg/l	lbs			
2M. Arsenic, Total (7440-38-2)	X			<0.1	ND					1	mg/l	lbs			
3M. Beryllium, Total (7440-41-7)	X			<0.01	ND					1	mg/l	lbs			
4M. Cadmium, Total (7440-43-9)	X			<0.01	ND					1	mg/l	lbs			
5M. Chromium, Total (7440-47-3)	X			<0.02	ND					1	mg/l	lbs			
6M. Copper, Total (7440-50-8)	X			<0.01	ND					1	mg/l	lbs			
7M. Lead, Total (7439-92-1)	X			<0.06	ND					1	mg/l	lbs			
8M. Mercury, Total (7439-97-6)	X			<0.0003	ND					1	mg/l	lbs			
9M. Nickel, Total (7440-02-0)	X			<0.03	ND					1	mg/l	lbs			
10M. Selenium, Total (7782-49-2)	X			<0.14	ND					1	mg/l	lbs			
11M. Silver, Total (7440-22-4)	X			<0.1	ND					1	mg/l	lbs			
12M. Thallium, Total (7440-28-0)	X			<0.3	ND					1	mg/l	lbs			
13M. Zinc, Total (7440-66-6)	X			<0.02	ND					1	mg/l	lbs			
14M. Cyanide, Total (57-12-5)	X			<0.01	ND					1	mg/l	lbs			
15M. Phenols, Total	X			0.86	1.256	0.86	1.256	0.149	0.037	16	mg/l	lbs			
DIOXIN															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	B. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVG. VALUE (if available)		D. NO. OF ANALYSES	B. CONCENTRATION	D. MASS	A. LONG TERM AVERAGE VALUE		D. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)	X			<50	ND					1	ug/l	lbs			
2V. Acrylonitrile (107-13-1)	X			<50	ND					1	ug/l	lbs			
3V. Benzene (71-43-2)	X			29	0.042					1	ug/l	lbs			
4V. Bis (Chloromethyl) Ether (542-88-1)	X			<5	ND					1	ug/l	lbs			
5V. Bromoform (75-25-2)	X			<5	ND					1	ug/l	lbs			
6V. Carbon Tetrachloride (56-23-5)	X			<5	ND					1	ug/l	lbs			
7V. Chlorobenzene (108-90-7)	X			<5	ND					1	ug/l	lbs			
8V. Chlorodibromomethane (124-48-1)	X			<5	ND					1	ug/l	lbs			
9V. Chloroethane (75-00-3)	X			<25	ND					1	ug/l	lbs			
10V. 2-Chloroethylvinyl Ether (110-75-8)	X			<25	ND					1	ug/l	lbs			
11V. Chloroform (67-66-3)	X			<5	ND					1	ug/l	lbs			
12V. Dichlorobromomethane (75-27-4)	X			<5	ND					1	ug/l	lbs			
13V. Dichlorodifluoromethane (75-71-8)	X			<50	ND					1	ug/l	lbs			
14V. 1,1-Dichloroethane (75-34-3)	X			<5	ND					1	ug/l	lbs			
15V. 1,2-Dichloroethane (107-06-2)	X			<5	ND					1	ug/l	lbs			
16V. 1,1-Dichloroethylene (75-35-4)	X			<5	ND					1	ug/l	lbs			
17V. 1,2-Dichloropropane (78-87-5)	X			<50	ND					1	ug/l	lbs			
18V. 1,3-Dichloropropylene (542-75-6)	X			<5	ND					1	ug/l	lbs			
19V. Ethylbenzene (100-41-4)	X			<5	ND					1	ug/l	lbs			
20V. Methyl Bromide (74-83-9)	X			<10	ND					1	ug/l	lbs			
21V. Methyl Chloride (74-87-3)	X			<10	ND					1	ug/l	lbs			

CONTINUED FROM PAGE V-4

EPA I.D. NUMBER (copy from Item 1 of Form 1)

ORD027734359

OU (FALL NUMBER

001

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	B. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		E. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	B. CONCENTRATION	b. MASS	B. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (continued)															
22V. Methylene Chloride (75-09-2)	X			<5	ND					1	ug/l	lbs			
23V. 1,1,2,2-Tetrachloroethane (79-34-5)	X			<5	ND					1	ug/l	lbs			
24V. Tetrachloroethylene (127-18-4)	X			<5	ND					1	ug/l	lbs			
25V. Toluene (108-88-3)	X			27	0.039					1	ug/l	lbs			
26V. 1,2-Trans-Dichloroethylene (156-60-5)	X			<5	ND					1	ug/l	lbs			
27V. 1,1,1-Trichloroethane (71-55-6)	X			<5	ND					1	ug/l	lbs			
28V. 1,1,2-Trichloroethane (79-00-5)	X			<5	ND					1	ug/l	lbs			
29V. Trichloroethylene (79-01-6)	X			<5	ND					1	ug/l	lbs			
30V. Trichlorofluoromethane (75-69-4)	X			<5	ND					1	ug/l	lbs			
31V. Vinyl Chloride (75-01-4)	X			<25	ND					1	ug/l	lbs			
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)	X			<5	ND					1	ug/l	lbs			
2A. 2,4-Dichlorophenol (120-83-2)	X			<5	ND					1	ug/l	lbs			
3A. 2,4-Dimethylphenol (105-67-9)	X			<5	ND					1	ug/l	lbs			
4A. 4,6-Dinitro-O-Cresol (534-52-1)	X			<5	ND					1	ug/l	lbs			
5A. 2,4-Dinitrophenol (51-28-5)	X			<50	ND					1	ug/l	lbs			
6A. 2-Nitrophenol (88-75-5)	X			<5	ND					1	ug/l	lbs			
7A. 4-Nitrophenol (100-02-7)	X			<50	ND					1	ug/l	lbs			
8A. P-Chloro-M-Cresol (59-50-7)	X			<2	ND					1	ug/l	lbs			
9A. Pentachlorophenol (87-86-5)	X			<25	ND					1	ug/l	lbs			
10A. Phenol (108-95-2)	X			<5	ND					1	ug/l	lbs			
11A. 2,4,6-Trichlorophenol (88-06-2)	X			<5	ND					1	ug/l	lbs			

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	A. TESTING REQUIRED RE-QUIR-ED	B. BELIEVED PRE-SENT	C. BELIEVED AB-SENT	B. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		E. LONG TERM AVG. VALUE (if available)		F. NO. OF ANAL- YSES	B. CON- TRATION	D. MASS	A. LONG TERM AVERAGE VALUE		D. NO. OF ANAL- YSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)	X			<5	ND					1	ug/l	lbs			
2B. Acenaphthylene (208-96-8)	X			<5	ND					1	ug/l	lbs			
3B. Anthracene (120-12-7)	X			<5	ND					1	ug/l	lbs			
4B. Benzidine (92-87-5)	X			<10	ND					1	ug/l	lbs			
5B. Benzo (a) Anthracene (56-55-3)	X			20	0.029					1	ug/l	lbs			
6B. Benzo (a) Pyrene (50-32-8)	X			9	0.013					1	ug/l	lbs			
7B. 3,4-Benzo-fluoranthene (205-99-2)	X			10	0.014					1	ug/l	lbs			
8B. Benzo (ghi) Perylene (191-24-2)	X			<5	ND					1	ug/l	lbs			
9B. Benzo (k) Fluoranthene (207-08-9)	X			10	0.014					1	ug/l	lbs			
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)	X			<5	ND					1	ug/l	lbs			
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)	X			<5	ND					1	ug/l	lbs			
12B. Bis (2-Chloroisopropyl) Ether (102-60-1)	X			<5	ND					1	ug/l	lbs			
13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7)	X			<5	ND					1	ug/l	lbs			
14B. 4-Bromo-phenyl Phenyl Ether (101-55-3)	X			<5	ND					1	ug/l	lbs			
15B. Butyl Benzyl Phthalate (85-68-7)	X			<5	ND					1	ug/l	lbs			
16B. 2-Chloro-naphthalene (91-58-7)	X			<5	ND					1	ug/l	lbs			
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)	X			<5	ND					1	ug/l	lbs			
18B. Chrysene (218-01-9)	X			<5	ND					1	ug/l	lbs			
19B. Dibenzo (a,h) Anthracene (53-70-3)	X			<5	ND					1	ug/l	lbs			
20B. 1,2-Dichloro-benzene (95-50-1)	X			<5	ND					1	ug/l	lbs			
21B. 1,3-Dichloro-benzene (541-73-1)	X			<5	ND					1	ug/l	lbs			

CONTINUED FROM PAGE V-6

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
ORD027734359	001

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT								4. UNITS		5. INTAKE (optional)		
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	B. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVG. VALUE (if available)		D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS	B. LONG TERM AVERAGE VALUE		D. NO. OF ANALYSES	
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS		
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)																
22B. 1,4-Dichlorobenzene (106-46-7)	X			<5	ND					1	ug/l	lbs				
23B. 3,3'-Dichlorobenzidine (91-94-1)	X			<10	ND					1	ug/l	lbs				
24B. Diethyl Phthalate (84-66-2)	X			<5	ND					1	ug/l	lbs				
25B. Dimethyl Phthalate (131-11-3)	X			<5	ND					1	ug/l	lbs				
26B. DI-N-Butyl Phthalate (84-74-2)	X			<5	ND					1	ug/l	lbs				
27B. 2,4-Dinitrotoluene (121-14-2)	X			<10	ND					1	ug/l	lbs				
28B. 2,6-Dinitrotoluene (606-20-2)	X			<10	ND					1	ug/l	lbs				
29B. Di-N-Octyl Phthalate (117-84-0)	X			<5	ND					1	ug/l	lbs				
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)	X			<5	ND					1	ug/l	lbs				
31B. Fluoranthene (206-44-0)	X			10	0.014					1	ug/l	lbs				
32B. Fluorene (86-73-7)	X			<5	ND					1	ug/l	lbs				
33B. Hexachlorobenzene (118-74-1)	X			<5	ND					1	ug/l	lbs				
34B. Hexachlorobutadiene (87-68-3)	X			<5	ND					1	ug/l	lbs				
35B. Hexachlorocyclopentadiene (77-47-4)	X			<25	ND					1	ug/l	lbs				
36B. Hexachloroethane (67-72-1)	X			<5	ND					1	ug/l	lbs				
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)	X			<5	ND					1	ug/l	lbs				
38B. Isophorone (78-59-1)	X			<5	ND					1	ug/l	lbs				
39B. Naphthalene (91-20-3)	X			<5	ND					1	ug/l	lbs				
40B. Nitrobenzene (98-95-3)	X			<5	ND					1	ug/l	lbs				
41B. N-Nitrosodimethylamine (62-75-9)	X			<5	ND					1	ug/l	lbs				
42B. N-Nitrosodi-N-Propylamine (621-84-7)	X			<5	ND					1	ug/l	lbs				

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TEST ING RE- QUIR- ED	b. SE- LIEVED PNC- SENT	c. DE- LIEVED AD- SENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)		d. NO. OF ANAL- YSES	a. CONCENTRATION	b. MASS	b. LONG TERM AVERAGE VALUE		b. NO. OF ANAL- YSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitro- sodiphenylamine (86-30-6)	X			<5	ND					1	ug/l	lbs			
44B. Phenanthrene (85-01-8)	X			<5	ND					1	ug/l	lbs			
46B. Pyrene (129-00-0)	X			11	0.0014					1	ug/l	lbs			
46B. 1,2,4 - Tri- chlorobenzene (120-82-1)	X			<25	ND					1	ug/l	lbs			
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)	X			<4	ND					1	ug/l	lbs			
2P. α -BHC (319-84-6)	X			<2	ND					1	ug/l	lbs			
3P. β -BHC (319-85-7)	X			<4	ND					1	ug/l	lbs			
4P. γ -BHC (58-88-9)	X			<4	ND					1	ug/l	lbs			
5P. δ -BHC (319-86-8)	X			<4	ND					1	ug/l	lbs			
6P. Chlordane (57-74-9)	X			<4	ND					1	ug/l	lbs			
7P. 4,4'-DDT (50-29-3)	X			<8	ND					1	ug/l	lbs			
8P. 4,4'-DDE (72-65-9)	X			<4	ND					1	ug/l	lbs			
9P. 4,4'-DDD (72-64-8)	X			<4	ND					1	ug/l	lbs			
10P. Dieldrin (60-57-1)	X			<4	ND					1	ug/l	lbs			
11P. α -Endosulfan (115-29-7)	X			<4	ND					1	ug/l	lbs			
12P. β -Endosulfan (115-29-7)	X			<8	ND					1	ug/l	lbs			
13P. Endosulfan Sulfate (1031-07-8)	X			<8	ND					1	ug/l	lbs			
14P. Endrin (72-20-8)	X			<4	ND					1	ug/l	lbs			
15P. Endrin Aldehyde (7421-93-4)	X			<10	ND					1	ug/l	lbs			
16P. Heptachlor (76-44-8)	X			<4	ND					1	ug/l	lbs			

CONTINUED FROM PAGE V-8

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
ORD027734359	001

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	A. TEST-ING RE-QUIR-ED	B. BE-LIEVED PRE-SENT	C. BE-LIEVED AB-SENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANAL-YES	a. CONCENTRATION	b. MASS	e. LONG TERM AVERAGE VALUE		b. NO. OF ANAL-YES
				(i) CONCENTRATION	(i) MASS	(i) CONCENTRATION	(i) MASS	(i) CONCENTRATION	(i) MASS				(i) CONCENTRATION	(i) MASS	
GC/MS FRACTION — PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024-57-3)	X			<4	ND					1	ug/l	lbs			
18P. PCB-1242 (53469-21-9)	X			<5	ND					1	ug/l	lbs			
19P. PCB-1254 (11097-69-1)	X			<5	ND					1	ug/l	lbs			
20P. PCB-1221 (11104-28-2)	X			<5	ND					1	ug/l	lbs			
21P. PCB-1232 (11141-16-5)	X			<5	ND					1	ug/l	lbs			
22P. PCB-1248 (12672-29-6)	X			<5	ND					1	ug/l	lbs			
23P. PCB-1260 (11098-82-5)	X			<5	ND					1	ug/l	lbs			
24P. PCB-1016 (12674-11-2)	X			<5	ND					1	ug/l	lbs			
25P. Toxaphene (8001-35-2)	X			<5	ND					1	ug/l	lbs			

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* U.S. G.P.O.: 1992-312-020:63176

VEHICLE WASHING
TO CATCH BASIN



Catch
Basin

PITCH FINES
RECYCLED
TO PROCESS

STORMWATER CATCH BASINS

Catch
Basin

Catch
Basin

Catch
Basin

Catch
Basin

Catch
Basin

BOILER
BLOWDOWN

Oil/Water Separator

OILS RECYCLED
TO PROCESS

WW-1

WW-2

WW-3

WW-4

WW-5

WW-6

45,000 GAL
EACH

20,000 GAL
EACH

STORMWATER
SURGE TANKS

OUTFALL 001
27,000 GPD AVG
175,000 GPD MAX

SANITARY WASTE

200 GPD AVG
350 GPD MAX

TO
CITY OF
PORTLAND

MAIN OFFICE

BATH HOUSE

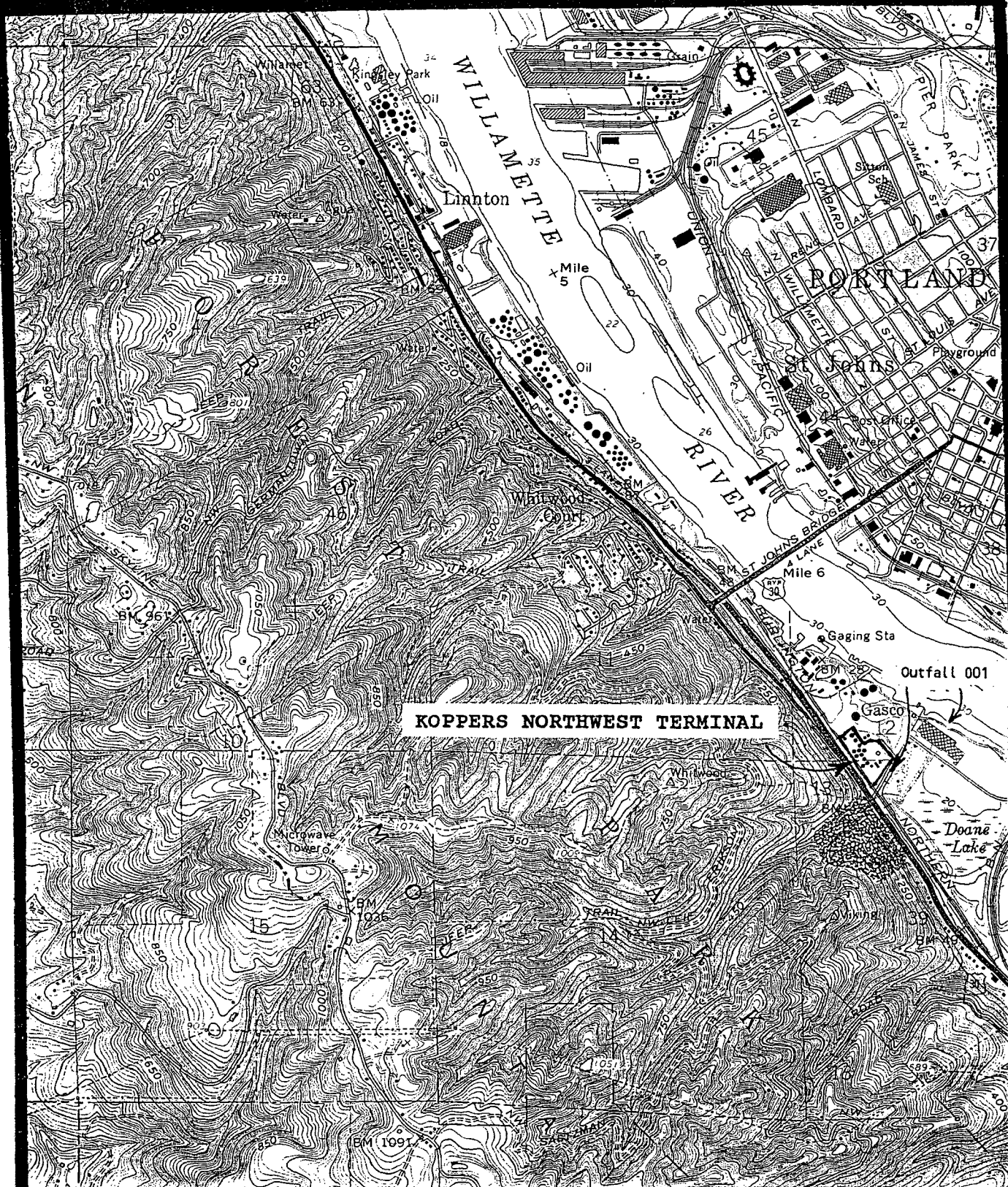
WATER FROM CITY OF PORTLAND

**KOPPERS
INDUSTRIES**

Portland Terminal
Portland, OR

**WASTE WATER
FLOW PLAN**

Revised January 1, 1997



**KOPPERS
INDUSTRIES**

PITTSBURGH, PA

NORTHWEST TERMINAL

**LATITUDE: 045D 34M 38S
LONGITUDE: 122D 45M 32S**

**USGS MAP
LINNTON
QUADRANGLE
OREGON
SERIES 7.5 MIN**

Material Safety Data Sheet

QUICK IDENTIFIER

Common Name: (Used on label and list)

May be used to comply with OSHA's Hazard Communication Standard, 29CFR 1910.1200. Standard must be consulted for specific requirements.

SECTION 1 -

Manufacturer's Name	Chemical Corporation of America		
Address	2525 S.E. 9th Avenue	Emergency Telephone No.	(503) 232-3334
City, State, ZIP	Portland OR 97202	Other Information Calls	(503) 232-3334
Signature of Person Responsible for Preparation (Optional)	Date Prepared		9/25/91. Revised 05/23/97

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Component(s) (chemical & common name(s))	% (optional)	OSHA PEL	ACGIH TLV	Other Exposure Limits	CAS NO.
Petroleum Hydrocarbon		500 ppm	200 ppm	TLV/STEL 200 ppm	64742-88-7

SARA Section III, Section 313 Hazardous Chemicals: None

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point	350° - 367° F.	Specific Gravity (H ₂ O = 1)	0.76	Vapor Pressure (mm Hg)	2.2
	Vapor Density (Air = 1)	5.3			

Solubility in Water	Emulsifiable	Reactivity in Water	None
Appearance and Odor	Clear, Yellow Liquid, Citrus Odor	Melting Point	Unknown

SECTION 4 - FIRE & EXPLOSION DATA

Flash Point	147°F. C.	Method Used	C.O.C.	Flammable Limits in Air % by Volume	LEL Lower	1.0	UEL Upper	7.0
Auto-Ignition Temperature	Unknown	Extinguisher Media	Water spray or fog, foam, dry chemical or CO ₂					
Special Fire Fighting Procedures	Do not use a direct water stream. Avoid any accumulation of water as product will float. Firefighters should use self-contained breathing apparatus and protective clothing.							
Unusual Fire and Explosion Hazards	Cool fire-exposed containers, surrounding equipment and structures with water.							

SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

CHEMCOA 1035-A

Stability Unstable ☐ Conditions
Stable ☒ to Avoid High heat and open flamesIncompatibility
(Materials to Avoid) Oxidizing materials.Hazardous
Decomposition Products Carbon monoxide, carbon dioxide and unidentified organics.Hazardous
Polymerization May Occur ☐ Conditions
Will Not Occur ☒ to Avoid None known.

SECTION 6 - HEALTH HAZARDS

1. Acute (Immediate) Eye & pulmonary irritation.
2. Chronic (Delayed Effect) None reportedSigns and
Symptoms of Exposure Coughing, dizziness and drying of skin. Mists irritate eyes, mucous
membranes and upper respiratory tract.Medical Conditions Generally
Aggravated by Exposure None known.Chemical Listed as Carcinogen
or Potential CarcinogenNational Toxicology
ProgramYes ☐
No ☒I.A.R.C.
MonographsYes ☐
No ☒OSHA Yes ☐
No ☒Emergency and
First Aid Procedures If over-exposure occurs, follow procedures outlined below:ROUTES
OF
ENTRY

1. Inhalation Remove victim to fresh air. Administer oxygen. Consult physician.
2. Eyes Flush w/water for 15 minutes. If irritation persists, consult physician.
3. Skin Wash affected area with soap and water. Launder clothes before reuse.
4. Ingestion Do not induce vomiting. Aspiration hazard, Immediately consult physician.

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken
in Handling and Storage Store in a cool, dry place with adequate ventilation. Keep container
closed when not in use.Other
Precautions Empty containers of this material contain residue. Observe all hazard practices
for empty containers. Do not weld on or cut empty containers.Steps to be Taken in Case
Material is Released or Spilled Eliminate sources of ignition. Contain spill with a non-combustible
absorbant, and place in drums for disposal. Do not discharge into sewer system.Waste Disposal
Methods (Consult federal, state, and local regulations) Dispose of wastes in compliance with federal, state
and local regulations.

SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

Respiratory Protection
(Specify Type) None normally required. If mists generated, use NIOSH approved respirator.Ventilation
recommended Local Exhaust Recommended (General) if needed Special none Other noneProtective
Gloves Rubber or Neoprene Eye
Protection Goggles, eye wash fountainOther Protective
Clothing or Equipment Long sleeves and trousers.

Work Hygiene Practices Wash thoroughly after handling.

IMPORTANT

Do not leave any blank spaces. If required information is unavailable, unknown, or does not apply, so indicate.
CU-FIR Printed by Labelmaster, An American Labelmark Company, Chicago, IL 60648 (800) 621-5808

TRANSMIT REPORT

1998.08-28 14:07
412 227 2423
KOPPERS ENVIRO/LEGAL

COM No.	REMOTE STATION	START TIME	DURATION	PAGES	RESULT	USER ID	REMARKS
588	412 826 3999	08-28 13:59	07'52	13/13	OK		

7498407164

**KOPPERS
INDUSTRIES**

ENVIRONMENTAL & LEGAL DEPARTMENT
436 Seventh Avenue-Pittsburgh, PA 15219-1800

DELIVER IMMEDIATELY TO:

Bill Mersinger
NTC

**13 PAGES INCLUDING THIS COVER SHEET****MESSAGE:****DATE** 8/28/98



OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY
SUPPLEMENTAL INFORMATION FORM

AIR, WATER, SOLID WASTE AND HAZARDOUS WASTE
PERMITS AND REGISTRATIONS
MODIFICATIONS TO EXISTING FACILITIES

Unnecessary delays during permit review or facility construction often can be eliminated when potential issues and areas of overlap are identified early in the permit process. With this in mind, the Oregon Department of Environmental Quality (DEQ) is testing an integrated approach to permit processing. The purpose of this "cross-media" approach is to help the applicant determine which pre-construction environmental permits will be needed, and help DEQ expedite the permit process. The approach also helps the applicant and DEQ analyze potential impacts of the proposed modification on all environmental areas of concern; helps prevent any inadvertent transfer of pollutants from one media to another, such as from air to land; provides an opportunity to look at overall environmental impacts from a facility and net environmental benefits from a proposal; and increases opportunities to identify pollution prevention alternatives.

The following questions are meant to be a screening tool to help identify potential areas of concern and, if necessary, help DEQ establish a cross-media workgroup for your facility. If you are unsure which regulations apply to your facility, several DEQ publications and technical assistance programs can help you find answers. For a copy of the Oregon Environmental Permits Handbook, or if you have other questions, please telephone the person identified in the cover letter included with this form. You also can telephone DEQ's Technical Assistance and Service Coordinator at (503) 229-5946, or toll-free (800) 452-4011, to be referred to the appropriate program or to arrange a pre-application meeting with permit program staff.

1. Name of Facility Koppers Industries, Inc.
Address or Location of Facility 7540 NW St. Helens Road
Portland, OR 97210-3663
Latitude/Longitude or other precise locational data for the facility, if available (*if you need assistance in determining latitude and longitude coordinates, please contact DEQ at 229-5946*)
Latitude 45:34:38 Longitude 122:45:32
Name of Contact Person Amos S. Kameron
Phone Number of Contact Person 503-285-3681

2. Please briefly tell us what kind of business you operate (principal products and services).

Terminal operations for creosote and coal tar pitches.

3. Please list any local, state or federal environmental permits or registrations you may have from the list below. Please check all that apply. *Please enter the permit or registration number if available (or just indicate YES if the number is not readily available); or indicate N/A if the permit does not apply to your facility.* Please indicate which of these permits you intend to apply for or modify at this time.

a. Air Permit (air emissions) ☒ yes ☐ N/A
Permit Number, if known _____ modify? ☐ yes ☐ no

- b. Indirect Source Construction Permit (large parking lots) ☐ yes ☒ N/A
Permit Number, if known _____ *modify?* ☐ yes ☐ no
- c. Wastewater Discharge Permit (state or federal) ☐ yes ☒ N/A
Permit Number, if known _____ *modify?* ☐ yes ☐ no
- d. Wastewater Pretreatment Permit (local) ☐ yes ☒ N/A
Permit Number, if known _____ *modify?* ☐ yes ☐ no
- e. Hazardous Waste Generator Registration ☐ yes ☒ N/A
EPA ID Number, if known _____ *modify?* ☐ yes ☐ no
- f. Hazardous Waste Permit (RCRA Part B) ☐ yes ☒ N/A
- g. Solid Waste Disposal Permit ☐ yes ☒ N/A
Permit Number, if known _____ *modify?* ☐ yes ☐ no
- h. Underground Storage Tank Registration ☐ yes ☒ N/A
Permit Numbers, if known _____ *modify?* ☐ yes ☐ no
- i. Environmental Cleanup/Superfund Site ☐ yes ☒ N/A
- j. Voluntary Cleanup Registration ☐ yes ☒ N/A

4. Please describe the proposed modification to your facility. This "systems design" should include a description of the proposed changes to the facility; input chemicals and approximate amounts used; anticipated volumes of wastes, emissions or discharges to the air, water and land; proposed control technologies; and any new energy sources that might be needed. If you treat your wastes prior to discharge or release, please indicate how you plan to manage or dispose of treatment residuals (ash, filters, sludge, leachate, etc.). Please use a separate sheet for your description.

5. Many companies are able to design their facilities and processes to minimize the amount of chemicals used and pollutants discharged to the environment. This information may be helpful in the permit review process and public hearings. Have you incorporated any pollution prevention concepts and technologies into the design of your facility?

☒ yes ☐ no ☐ don't know

Paving at potential spill areas. Recycle spill material.

If yes, please briefly describe the design elements and pollutant reductions anticipated.

Also include any pollution prevention activities already implemented in your facility. Please use a separate sheet for your description.

If you would you like any information (written publications, videos, etc.) about pollution prevention from our Waste Reduction Assistance Program, please call (503) 229-5913, or toll-free (800) 452-4011.

6. Facilities applying for environmental permits may encounter public concerns regarding land use, noise, traffic, odors or other community issues. Are you aware of any concerns in your community regarding your facility? ☐ yes ☐ no ☒ don't know

If yes, please indicate what the concerns are and how you plan to address them. Please use a separate sheet for your description.

Thank you for taking the time to fill out this form. If you have any questions, please contact the DEQ staff person listed in the cover letter, or our Technical Assistance and Services Coordinator at (503) 229-5946, or toll-free (800) 452-4011.

(Note: questions 4, 5 and 6 should be answered on a separate sheet of paper.)

FORM AQ101
ADMINISTRATIVE INFORMATION

FOR DEQ USE ONLY

Permit No. _____
Application No. _____
Date Received _____
Type of Application:
EXT NEW RNW MOD SM

1. Legal Company Name

Koppers Industries, Inc.

Legal Company Name

436 Seventh Avenue

Mailing Address

Pittsburgh, PA 15219-1800

City, State, Zip Code

412-227-2001

Area Code and Telephone Number

2. Facility Name (if different from legal company name)

Koppers Industries, Inc.

Facility Name

7540 NW St. Helens Road

Mailing Address

Portland, OR 97210-3663

City, State, Zip Code

503-285-3681

Area Code and Telephone Number

3. Facility Location

SAME

Street Address (if different from mailing address)

City, Zip Code

Multnomah

County

4. Site Contact

Amos S. Kamerer; Plant Mgr.

Name and Title of Contact Person at Site

503-285-3681

Area Code and Telephone Number

5. Government Facility Indicator

6. Other DEQ Permits

NPDES Permit No. 100419

Signature

I hereby apply for permission to discharge air contaminants in the State of Oregon, as stated or described in this application, and certify that the information contained in this application, and the schedules and exhibits appended hereto, are true and correct to the best of my knowledge and belief.

Amos S. Kamerer

Name of official (printed or typed)

Plant Manager

Title of official

Signature of official

Date (mm/dd/yy)

APPLICATION FEE INFORMATION ON REVERSE. TWO COPIES OF THE COMPLETED APPLICATION MUST BE SUBMITTED, WITH ALL FEES REQUIRED, TO THE DEPARTMENT BUSINESS OFFICE: 811 SW SIXTH AVENUE, PORTLAND OR 97204.

Type of Business (OAR 340-28-1750 Table 4 entries).

Industrial Organic Chemicals SIC 2865 or 2869

Fee Information

<u>SIC Code</u>	<u>Application Processing</u>	<u>Compliance Determination</u>	
4961	\$1540.00	\$1332.00	\$2872.00
Standard filing fee			\$75.00
Fee: Permitting Fee		(P.D.I.E. F)	\$2000.00
Fee:			
Fee:			
Fee:			
TOTAL FEES			\$4947.00

Ames - for DEQ
purposes, boilers
are listed as SIC
4961. Kelly

FACILITY DESCRIPTION

FORM AQ102
ANSWER SHEET1. Facility name Koppers Industries, Inc.2. Permit # N/A

3. Description of facility

The plant receives truck, railcar, and barges of creosote, coal tar pitches, and allied coal tar chemicals. These products are stored in heated tanks and shipped to customers in the northwest states via truck and rail transporters.

Due to changing market conditions, KII is planning to add additional heated storage tanks to the facility. The tanks will be heated by a hot oil system. An additional 8.0 million BTU/HR natural gas fired hot oil heater will be needed when the tanks are installed. Potential tank emissions of VOM will be collected and ducted to the proposed new hot oil heater and will be incinerated at a 98% or greater destruction efficiency. A new heated pipeline installation is also planned within the next two years.

4. Seasonal or year-round operation? Year-round operation

5. Operating schedule

24 hours/day7 days/week6000 hours/year

6. Attach diagram

7. Attach line/block drawing

8. Attach location map

FUEL BURNING DEVICE

FORM AQ210
ANSWER SHEET

1. Facility name <u>Koppers Industries, Inc.</u>	2. Permit # <u>N/A</u>
--	------------------------

Fuel Burning Device Information

3. ID number #1
4. Existing or future? Existing
5. Date commenced (mm/dd/yy) Circa 1965
6. Date installed/completed (mm/dd/yy) Circa 1965
7. Special controls None
8. Manufacturer North American
9. Description of device Fire tube steam boiler for heating
10. Firing method Normal dual fuel burner

Operating Schedule

11. Seasonal or year-round? Year-round
- a. Months in operation 12
12. Projected maximum hours/day 24
13. Projected maximum days/week 7
14. Projected maximum weeks/year 52

Production Information

15. Rated design capacity (input) 21,000,000 BTU/hr (specify units)
16. Projected maximum annual operation 126,000 M BTU (specify units)

Ash Generation and Disposal Information

17. Quantity generated None tons/yr
18. Description of ash disposal method N/A

Fuel Usage Information

19. Fuel usage	Primary Fuel	Backup A	Backup B	Backup C
a. Type/grade of fuel	Nat. gas	Diesel oil	N/A	N/A
b. Average sulfur content (% by wt.)	0.01 GR/SCF	0.3		
c. Design hourly usage (specify units/hr)	21 MCF/HR	140 GAL/HR		
d. Projected maximum annual usage (units/yr)	184 MMCF/Y	100,000 GPY		

Stack Information

20. Stack height 40 ft
21. Flow rate 4550 dscf/min at maximum firing rate.

Monitoring Information

22. Monitoring equipment
- a. steam pressure gauge (y/n; if y, recorder?) Yes - no recorder
 - b. steam flow gauge (y/n; if y, recorder?) Yes - recorder
 - c. oxygen analyzer (y/n; if y, recorder?) No
 - d. visible emissions monitoring (y/n) No
 - e. sulfur dioxide monitor (y/n) No
 - f. other monitor (y/n; if y, specify; if y recorder?) No

Pollution Control Information

23. Control device(s)? (y/n; if y, identification number(s)) No

PLANT SITE EMISSIONS DETAIL SHEET—CURRENT/FUTURE OPERATIONS

1. Facility name	Koppers Industries, Inc.	2. Permit #	N/A
------------------	--------------------------	-------------	-----

3. Emissions Data

a. Emissions Point	Production Rates		d. Pollutant	Emission Factors			Emissions	
	b. Short-term (specify)	c. Annual (specify)		e. Short-term	f. Long-term	g. Reference(s)	h. Short-term (specify)	i. Annual (tons/yr)
#1	21.0 MBTU/HR	4.4 TBTU	NO _x	140 lb/MCF	140 lb/MCF	DEQ	2.8 lb/HR	12.3 TPY
#1	"	"	VOC	2.8 lb/MCF	2.8 lb/MCF	DEQ	0.05 lb/HR	0.3 TPY
#1	"	"	CO	35 lb/MCF	35 lb/MCF	DEQ	0.7 lb/HR	3.1 TPY
#1	"	"	PM	2.5 lb/MCF	2.5 lb/MCF	DEQ	0.05 lb/HR	0.2 TPY
#1	"	"	SO ₂	3.8 lb/MCF	2.6 lb/MCF	DEQ	0.05 lb/HR	0.2 TPY

MAXIMUM POTENTIAL EMISSION PORTLAND TERMINAL

SOURCE		INPUT	FUEL	FUEL	NOx	NOx	VOC	VOC	CO	CO	SO2	SO2	PM	PM
		MM BTU/Hr		USED	lb/MMcuft	Tons/Yr	lb/MMcuft	Tons/Yr	lb/MMcuft	Tons/Yr	lb/MMcuft	Tons/Yr	lb/MMcuft	Tons/Yr
Atlas Boller	long term	21	N Gas/Oil	Gas	140	12.334	2.800	0.247	35.000	3.084	3.800	0.335	2.500	0.220
	short term	21		Gas	140						2.600	0.229		
Hot Oil Heater	long term	8.5	N Gas/Oil	Gas	100	3.566	5.300	0.189	20.000	0.713	3.800	0.136	2.500	0.089
New H. O. Heater	long term	8	N Gas/Oil	Gas	100	3.356	5.300	0.178	20.000	0.671	3.800	0.128	2.500	0.084
						0.000		0.000		0.000		0.000		0.000
New Pitch Tanks	no controls					0.000		20.040		0.000		0.000		0.000
	98% control					0.000		0.401		0.000		0.000		0.000
ProcessTotals						6.922		0.768		1.384		0.263		0.173
Plant Total						19.257		1.014		4.468		0.598		0.393

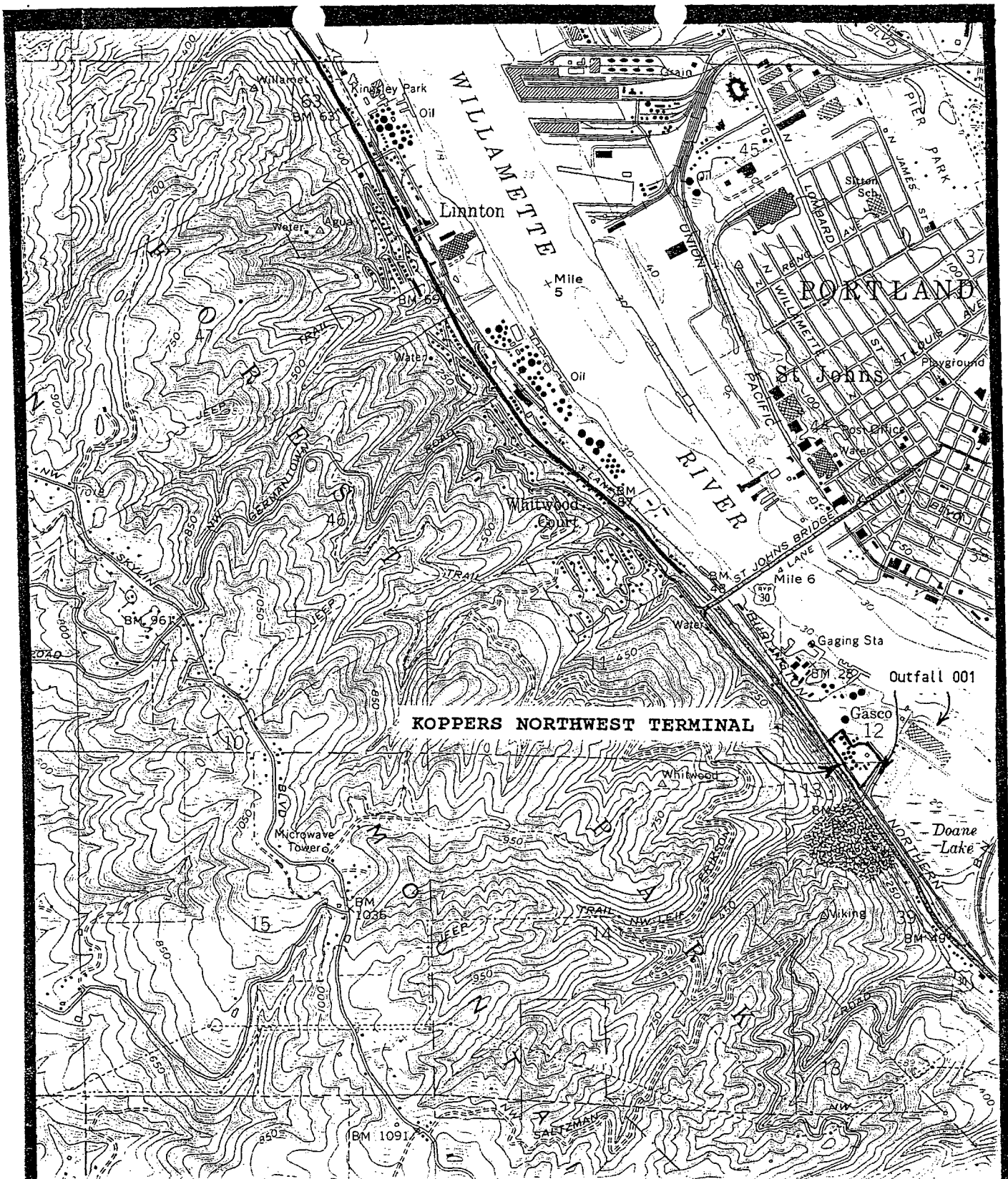
Natural Gas = 1044 BTU/cuft

SO2 long term maximum based on 13,200 grains sulfur per millin cubic feet natural gas, determined by Northwest supply.

SO2 short term maximum based on 9,100 grains sulfur per millin cubic feet natural gas, determined by Northwest supply.

Emission factors are taken from DEQ table - Air Quality Division 2/23/93

Calculation for criteria pollutants = (max input in mm BTU/hr) X (Criteria emission factor) X (8760 hrs/yr)/(2000 lbs/ton * 1044 BTU/SCF)



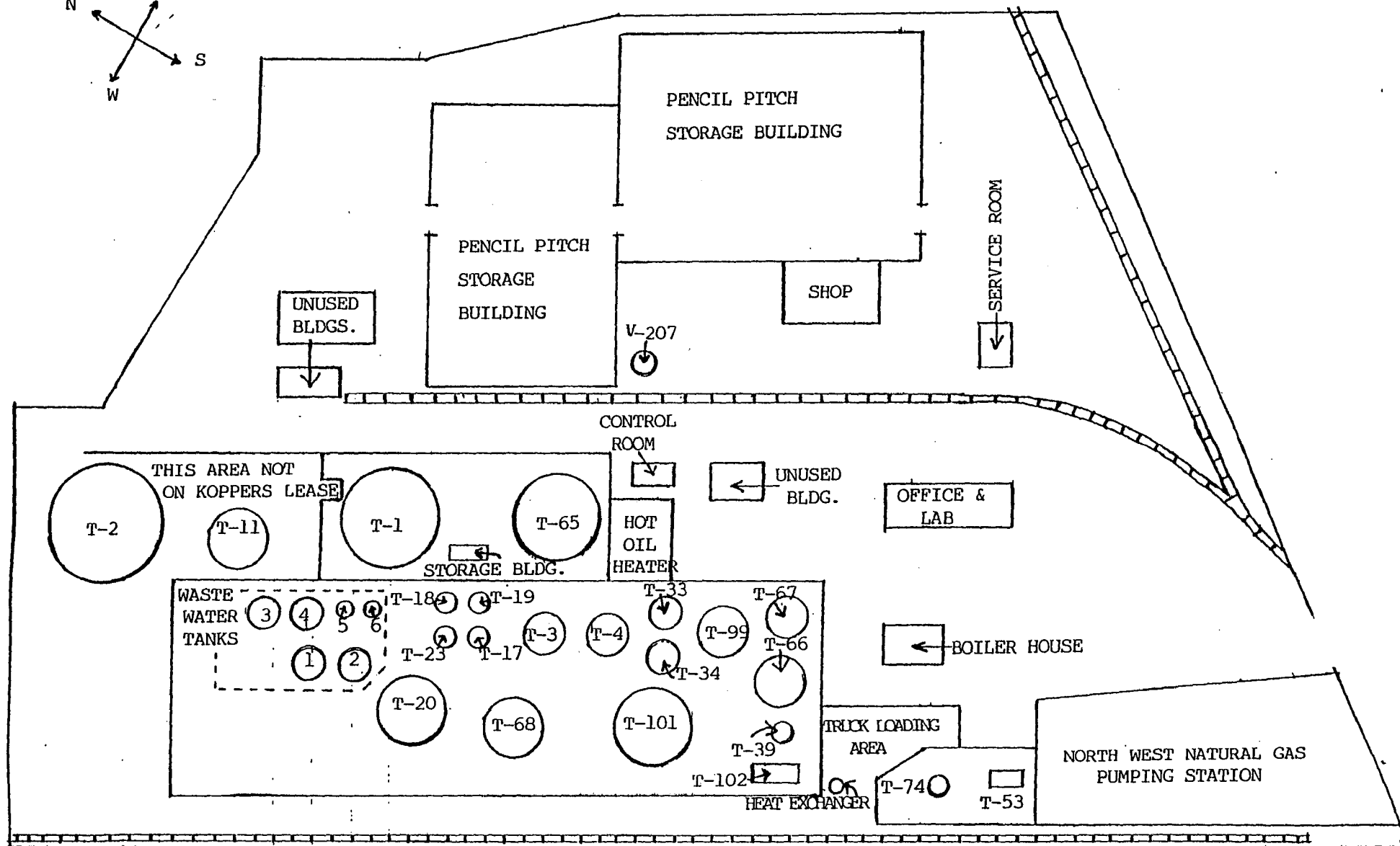
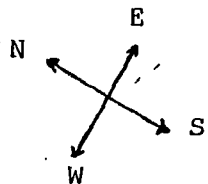
**KOPPERS
INDUSTRIES**

PITTSBURGH, PA

NORTHWEST TERMINAL

LATITUDE: 045D 34M 38S
LONGITUDE: 122D 45M 32S

**USGS MAP
LINNTON
QUADRANGLE
OREGON
SERIES 7.5 MIN**



SITE PLAN

KOPPERS INDUSTRIES INC., PORTLAND, OREGON

12/95

page 2 of 2

Koppers003787



KOPPERS INDUSTRIES

Koppers Industries, Inc.
436 Seventh Avenue
Pittsburgh, PA 15219-1800

Telephone: (412) 227-2001
Fax: (412) 227-2423

August 1, 1997

DEQ Business Office
811 SW Sixth Avenue
Portland, OR 97204

EXPRESS MAIL

Deliver 8/4/97

Attention: Mr. Elliott Zais

Re: Renewal Application
NPDES Permit No. 101003
File No. 47430
Multnomah County
OR 000077-9

Dear Mr. Zais:

Enclosed is check #270572 in the amount of One thousand twenty-five dollars (\$1,025) to cover the \$50.00 filing fee and the \$975.00 processing fee and the following completed forms for the subject facility:

- ☑ DEQ application form;
- ☑ EPA Form 2C NPDES;
- ☑ Facility waste water flow plan;
- ☑ USGS map of facility location;
- ☑ CHEMCOA 1035-A material safety data sheet.

Terminal operations and stormwater handling and treatment have not changed significantly since the issuance of the current permit. No wastewater is generated from operating processes at this facility; however, a minor amount of wash water is generated from time to time from vehicle cleaning. The resultant solids/water mixture is drained to a catch basin to recover the reusable product. This equipment cleaning operation has been added to the waste water flow plan for this facility. The cleaning procedure is enhanced if a proprietary cleaner (CHEMCOA 1035-A) is sprayed on the vehicle prior to hosing it down with city water. Vehicle washing occurs approximately six to seven times per year; hence KII anticipates that CHEMCOA 1035-A usage would be less than 55 gallons per year. Since the primary purpose of the equipment cleaning is to remove solid particles (which are recovered and recycled) rather than oils, KII believes that oil emulsification will not be a significant problem and requests that the use of CHEMCOA 1035 be provided for in the renewed NPDES permit. Attached is a Material Safety Data Sheet for CHEMCOA 1035.

You may recall that heavy rainfall caused flooding in the plant several times over the past five years and resulted in shut down of the operations due to our inability to remove stormwater fast enough. Improvements to the stormwater handling facilities at the plant are underway and will be completed by year end. These improvements will not change the current methods of treatment but will increase the maximum discharge rate of stormwater from 120 gpm to approximately 700 gpm.

These matters notwithstanding, KII believes that the current outfall limitations provide adequate protection to the environment and achieves a reasonable cost benefits ratio. We encourage the Agency to reissue the NPDES permit with the modifications that were requested while maintaining the existing outfall limitations.

If you have any questions, please call Mr. Amos Kamerer, Plant Manager, at 503-286-3681 or me at 412-227-2883.

Sincerely yours,


William E. Swearingen
Manager, Environmental Programs

Enclosures

cc: A. S. Kamerer, Portland Plant

C:\WPWIN60\PORTLAND\NPDES\DEQ.LTR

Koppers003789

THE BACK OF THIS DOCUMENT CONTAINS AN ARTIFICIAL WATERMARK - HOLD AT AN ANGLE TO VIEW

**KOPPERS
INDUSTRIES**

270572 62-4
311

DATE: JULY 30 1997

PAY TO THE ORDER OF: OREGON ST DEPT ENVIRON QUALITY

\$1,025.00

ONE THOUSAND TWENTY FIVE AND 00/100 ONLY

OREGON ST DEPT ENVIRON QUALITY
ATTN: BUSINESS OFFICE
811 S W SIXTH AVE
PORTLAND OR 97204

Payable through Mellon Bank (DE) N.A. Wilmington, DE 19899
Mellon Bank (East) N.A. Philadelphia, PA 19102

DE *Don McQuinn*
KOPPERS INDUSTRIES, INC.
V.P. AND C.F.O. TREASURER

⑈ 270572⑈ ⑆031100047⑆ 2⑈943 678⑈

270572

KOPPERS INDUSTRIES, INC. PITTSBURGH PA

*****	SP	*****	INV	INV	*****	NET AMT				
*****	CD	VENDOR	DIV	OUR	AUDIT	YOUR INVOICE NBR	MO/DA	AMOUNT	DISC	PAYABLE
*****	7	967125006	483	48370700298	MDA	NPDES RENEWAL	0730	1025.00	0.00	***1025.00

DEQ USE ONLY - REGIONAL OFFICE

Received: _____
 Application No.: _____
 File No.: 47430
 EPA No.: OR 000077-9
 Mail ID #21#9: _____
 Hydrocode: _____
 DOC Conf.: _____

**APPLICATION
 FOR RENEWAL OF
 NATIONAL POLLUTANT DISCHARGE
 ELIMINATION SYSTEM PERMIT (NPDES-R)**

STATE OF OREGON

(Attach additional sheets if necessary.)

1W-NWR

DEQ USE ONLY - BUSINESS OFFICE

Date Received: _____
 Amount Received: _____
 Check No.: _____
 Deposit No.: _____
 NOTES: _____

A. REFERENCE INFORMATION

<p>1. <u>Koppers Industries, Inc.</u> Legal Name of Applicant</p> <p><u>Northwest Terminal</u> Facility Name</p> <p>2. <u>7540 Northwest Saint Helens Road</u> Mailing Address</p> <p><u>Portland</u> <u>OR</u> <u>97210-3663</u> City State Zip</p> <p>3. <u>Amos S. Kameron</u> Responsible Official</p> <p><u>Plant Manager</u> Title</p> <p><u>(503) 286-3681</u> Address or Location Phone</p>	<p>4. _____ Alternate Responsible Official</p> <p>_____ Title</p> <p>_____ Address or Location Phone</p> <p>5. Present Permit No.: <u>100419</u> File No.: <u>47430</u> Date Expires: <u>11/30/97</u></p> <p>6. Enter Site Location by Latitude and Longitude:</p> <table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th colspan="3">LATITUDE</th> <th colspan="3">LONGITUDE</th> </tr> <tr> <th>1. Deg.</th> <th>2. Min.</th> <th>3. Sec.</th> <th>1. Deg.</th> <th>2. Min.</th> <th>3. Sec.</th> </tr> </thead> <tbody> <tr> <td>45</td> <td>34</td> <td>38</td> <td>122</td> <td>45</td> <td>32</td> </tr> </tbody> </table>	LATITUDE			LONGITUDE			1. Deg.	2. Min.	3. Sec.	1. Deg.	2. Min.	3. Sec.	45	34	38	122	45	32
LATITUDE			LONGITUDE																
1. Deg.	2. Min.	3. Sec.	1. Deg.	2. Min.	3. Sec.														
45	34	38	122	45	32														

Description of activities requiring a permit from the Department: (Check ALL that apply.)

- _____ Construction, installation or modification of waste collection, treatment, or disposal facilities.
- _____ Operation of waste collection, treatment, or disposal facilities.
- _____ Continued discharge of treated wastewaters into the waters of _____.
- ☒ (Other) Stormwater discharged to Willamette River

B. GENERAL QUESTIONS

1. Have the treatment or disposal methods employed, as indicated in previous applications, been altered in any way since the last application was submitted? ☐ Yes ☒ No (If yes, explain:)
2. Has the quantity or quality of wastes discharged, as indicated in previous applications, been significantly changed in any way since the last application was submitted? ☐ Yes ☒ No (If yes, explain:)

C. SPECIAL QUESTIONS AND REQUESTED INFORMATION

1. If any changes in operations or waste quantity or quality are anticipated in the near future, please attach an explanation or proposal.
2. Please attach a brief report which indicates your progress in meeting the requirements and limitations of your present permit.

I HEREBY CERTIFY THAT THE INFORMATION CONTAINED IN THIS APPLICATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

[Signature]
 Signature of Legally Authorized Representative
 (See Instructions)

Vice President

Title

7/29/97

Date

This form must be accompanied with the appropriate EPA form 2B, 2C, 2D, or 2E.

INSTRUCTION:
PERMIT RENEWAL APPLICATION

- A. **Reference Information:** Complete the required information in detail. If there has been a name change, address change or change in personnel since the last application, please make a special note to that effect.
- B. **General Questions:** If more space is needed than provided on the application form, please attach as many additional pages as necessary in order to supply whatever explanation or diagrams are needed to update the treatment and disposal methods used and the characteristics of the waste discharged or otherwise disposed.
- C. **Special Questions and Requested Information:**
1. Please elaborate on any proposed expansions, cutbacks, improvements or changes of any kind that will or may affect the quantity or quality of pollutants discharged.
 2. Each condition of your present permit should be reviewed and an assessment made as to the success you have had in meeting the requirements and limitations.

Signature on Application:

DEFINITION: Signature Line — "Legally Authorized Representative" • Corporation — By a principal executive officer of at least the level of vice president; • Partnership or Sole Proprietorship — By a general partner or the proprietor (owner), respectively; or • Municipality, State, Federal, or other Public Facility — By either a principal executive officer or ranking elected official.

Other Instructions:

Submit this application and required fees (attached) as soon as possible. They should be submitted at **least 180 days prior** to the expiration of your present permit.

Please return Application Fee and Application to: Department of Environmental Quality, Business Office,
811 SW 6th Avenue, Portland, OR 97204

[illegible]

☐ NO (go to Mon III)

III. PRODUCTION

☒ YES (complete Item III-B)

☐ NO (to to Section IV)☐ YES (complete Item III-C)

☒ NO (go to Section IV)

1. AVERAGE DAILY PRODUCTION

2. AFFECTED
OUTFALLS
(list outfall numbers)

IV. IMPROVEMENTS

☐ YES (complete the following table)

☒ NO (go to Item IV.B)

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction. ☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

V. INTAKE AND EFFLUENT CHARACTERISTICS

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

[illegible]

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☒ YES (list all such pollutants below)

☐ NO (go to Item VI-B)

Total Phenols
Benzene
Toluene
Phenols
Acenaphthene
Acenaphthylene
Chrysene
Fluoranthene
Fluorene
Naphthalene
Phenanthrene
Pyrene

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge or reason to believe that a biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ YES (identify the test(s) and describe their purposes below)

☒ NO (go to Section VIII)

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☒ YES (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)

☐ NO (go to Section IX)

A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
Columbia Inspection, Inc.	7133 N. Lombard Street Portland, OR 97203	(503) 286-9464	Form 2C Section V Parts A, B, C Full Scan

IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. NAME & OFFICIAL TITLE (type or print)

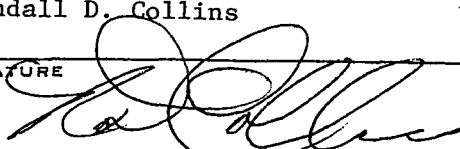
Randall D. Collins

Vice President

B. PHONE NO. (area code & no.)

(412) 227-2456

C. SIGNATURE



D. DATE SIGNED

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)

ORD027734359

OUTFALL NO.

001

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT						d. NO. OF ANALYSES	3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)			a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Biochemical Oxygen Demand (BOD)	6						1	mg/l	lbs			
b. Chemical Oxygen Demand (COD)	9						1	mg/l	lbs			
c. Total Organic Carbon (TOC)	7.3						1	mg/l	lbs			
d. Total Suspended Solids (TSS)	<1.0	ND					1	mg/l	lbs			
e. Ammonia (as N)	<1.0	ND					1	mg/l	lbs			
f. Flow	VALUE 175,000		VALUE 27,000		VALUE 18,000		8	N/A	gal	VALUE		
g. Temperature (winter)	VALUE 14		VALUE 14		VALUE		3	°C		VALUE		
h. Temperature (summer)	VALUE 18		VALUE 18		VALUE		3	°C		VALUE		
i. pH	MINIMUM 6.0	MAXIMUM 7.4	MINIMUM 6.0	MAXIMUM 7.4	<div></div>		16	STANDARD UNITS		<div></div>		

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'		3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Bromide (24959-67-9)		X	<0.01	ND					1	mg/l	lbs			
b. Chlorine, Total Residual		X	<0.05	ND					1	mg/l	lbs			
c. Color	X		20	N/A					1	Pt-Co	N/A			
d. Fecal Coliform	X		<0.01	ND					1	Colonies 100 ml	N/A			
e. Fluoride (16984-48-8)	X		0.2	0.03					1	mg/l	lbs			
f. Nitrate- Nitrite (as N)	X		<1.0	ND					1	mg/l	lbs			

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X'		3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	B. BELIEVED PRESENT	D. BELIEVED ADJ. PRESENT	B. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVG. VALUE (if available)		D. NO. OF ANALYSES	B. CONCENTRATION	D. MASS	A. LONG TERM AVERAGE VALUE		D. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)	X		<1.0	ND					1	mg/l	lbs			
h. Oil and Grease	X		7.0	14.92	7.0	14.92	1.93	0.29	16	mg/l	lbs			
i. Phosphorus (as P), Total (7723-14-0)	X		0.6	0.876					1	mg/l	lbs			
j. Radioactivity														
(1) Alpha, Total		X	N/A	N/A					0	N/A	N/A			
(2) Beta, Total		X	N/A	N/A					0	N/A	N/A			
(3) Radium, Total		X	N/A	N/A					0	N/A	N/A			
(4) Radium 226, Total		X	N/A	N/A					0	N/A	N/A			
k. Sulfate (as SO ₄) (14808-79-8)	X		7.3	10.66					1	mg/l	lbs			
l. Sulfide (as S)	X		<0.1	ND					1	mg/l	lbs			
m. Sulfite (as SO ₃) (14265-45-3)	X		<1.0	ND					1	mg/l	lbs			
n. Surfactants	X		0.28	0.409					1	mg/l	lbs			
o. Aluminum, Total (7429-90-5)	X		<0.02	ND					1	mg/l	lbs			
p. Barium, Total (7440-39-3)	X		<0.02	ND					1	mg/l	lbs			
q. Boron, Total (7440-42-8)	X		<0.01	ND					1	mg/l	lbs			
r. Cobalt, Total (7440-48-4)	X		<0.03	ND					1	mg/l	lbs			
s. Iron, Total (7439-89-6)	X		1.0	1.46					1	mg/l	lbs			
t. Magnesium, Total (7439-95-4)	X		5.2	7.592					1	mg/l	lbs			
u. Molybdenum, Total (7439-98-7)	X		<0.02	ND					1	mg/l	lbs			
v. Manganese, Total (7439-96-5)	X		1.0	1.46					1	mg/l	lbs			
w. Tin, Total (7440-31-5)	X		<0.07	ND					1	mg/l	lbs			
x. Titanium, Total (7440-32-6)	X		<0.002	ND					1	mg/l	lbs			

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
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CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (*secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions*), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (*all 7 pages*) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT								4. UNITS		5. INTAKE (optional)		
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	8. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		G. LONG TERM AVG. VALUE (if available)		d. NO. OF ANALYSES	B. CONCENTRATION	D. MASS	8. LONG TERM AVERAGE VALUE		D. NO. OF ANALYSES	
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS		
METALS, CYANIDE, AND TOTAL PHENOLS																
1M. Antimony, Total (7440-36-0)	X			<0.1	ND					1	mg/l	lbs				
2M. Arsenic, Total (7440-38-2)	X			<0.1	ND					1	mg/l	lbs				
3M. Beryllium, Total (7440-41-7)	X			<0.01	ND					1	mg/l	lbs				
4M. Cadmium, Total (7440-43-9)	X			<0.01	ND					1	mg/l	lbs				
5M. Chromium, Total (7440-47-3)	X			<0.02	ND					1	mg/l	lbs				
6M. Copper, Total (7440-50-8)	X			<0.01	ND					1	mg/l	lbs				
7M. Lead, Total (7439-92-1)	X			<0.06	ND					1	mg/l	lbs				
8M. Mercury, Total (7439-97-6)	X			<0.0003	ND					1	mg/l	lbs				
9M. Nickel, Total (7440-02-0)	X			<0.03	ND					1	mg/l	lbs				
10M. Selenium, Total (7782-49-2)	X			<0.14	ND					1	mg/l	lbs				
11M. Silver, Total (7440-22-4)	X			<0.1	ND					1	mg/l	lbs				
12M. Thallium, Total (7440-28-0)	X			<0.3	ND					1	mg/l	lbs				
13M. Zinc, Total (7440-66-6)	X			<0.02	ND					1	mg/l	lbs				
14M. Cyanide, Total (57-12-5)	X			<0.01	ND					1	mg/l	lbs				
15M. Phenols, Total	X			0.86	1.256	0.86	1.256	0.149	0.037	16	mg/l	lbs				
DIOXIN																
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS												

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TEST ING RE- QUI- RED	b. SE- LIEVED PRE- SENT	c. SE- LIEVED AB- SENT	b. MAXIMUM DAILY VALUE		d. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)		d. NO. OF ANAL- YSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANAL- YSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)	X			<50	ND					1	ug/l	lbs			
2V. Acrylonitrile (107-13-1)	X			<50	ND					1	ug/l	lbs			
3V. Benzene (71-43-2)	X			29	0.042					1	ug/l	lbs			
4V. Bis (Chloro- methyl) Ether (542-88-1)	X			<5	ND					1	ug/l	lbs			
5V. Bromoform (75-25-2)	X			<5	ND					1	ug/l	lbs			
6V. Carbon Tetrachloride (56-23-5)	X			<5	ND					1	ug/l	lbs			
7V. Chlorobenzene (108-90-7)	X			<5	ND					1	ug/l	lbs			
8V. Chlorodi- bromomethane (124-48-1)	X			<5	ND					1	ug/l	lbs			
9V. Chloroethane (75-00-3)	X			<25	ND					1	ug/l	lbs			
10V. 2-Chloro- ethylvinyl Ether (110-75-8)	X			<25	ND					1	ug/l	lbs			
11V. Chloroform (67-66-3)	X			<5	ND					1	ug/l	lbs			
12V. Dichloro- bromomethane (75-27-4)	X			<5	ND					1	ug/l	lbs			
13V. Dichloro- difluoromethane (75-71-8)	X			<50	ND					1	ug/l	lbs			
14V. 1,1-Dichloro- ethane (75-34-3)	X			<5	ND					1	ug/l	lbs			
15V. 1,2-Dichloro- ethane (107-06-2)	X			<5	ND					1	ug/l	lbs			
16V. 1,1-Dichloro- ethylene (75-35-4)	X			<5	ND					1	ug/l	lbs			
17V. 1,2-Dichloro- propane (78-87-5)	X			<50	ND					1	ug/l	lbs			
18V. 1,3-Dichloro- propylene (542-75-6)	X			<5	ND					1	ug/l	lbs			
19V. Ethylbenzene (100-41-4)	X			<5	ND					1	ug/l	lbs			
20V. Methyl Bromide (74-83-9)	X			<10	ND					1	ug/l	lbs			
21V. Methyl Chloride (74-87-3)	X			<10	ND					1	ug/l	lbs			

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS			5. INTAKE (optional)		
	A. TEST-ING RE-QUI-RED	B. BE-LIEVED PRE-SENT	C. BE-LIEVED AB-SENT	8. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		E. LONG TERM AVG. VALUE (if available)		d. NO. OF ANAL- YSES	b. CONCENT- TRATION	b. MASS	8. LONG TERM AVERAGE VALUE		b. NO. OF ANAL- YSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENT- TRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (continued)															
22V. Methylene Chloride (75-09-2)	X			<5	ND					1	ug/l	lbs			
23V. 1,1,2,2-Tetra- chloroethane (79-34-5)	X			<5	ND					1	ug/l	lbs			
24V. Tetrachloro- ethylene (127-18-4)	X			<5	ND					1	ug/l	lbs			
25V. Toluene (108-88-3)	X			27	0.039					1	ug/l	lbs			
26V. 1,2-Trans- Dichloroethylene (156-60-5)	X			<5	ND					1	ug/l	lbs			
27V. 1,1,1-Tril- chloroethane (71-55-6)	X			<5	ND					1	ug/l	lbs			
28V. 1,1,2-Tril- chloroethane (79-00-5)	X			<5	ND					1	ug/l	lbs			
29V. Trichloro- ethylene (79-01-6)	X			<5	ND					1	ug/l	lbs			
30V. Trichloro- fluoromethane (75-69-4)	X			<5	ND					1	ug/l	lbs			
31V. Vinyl Chloride (75-01-4)	X			<25	ND					1	ug/l	lbs			
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chloropheno (95-57-8)	X			<5	ND					1	ug/l	lbs			
2A. 2,4-Dichloro- phenol (120-83-2)	X			<5	ND					1	ug/l	lbs			
3A. 2,4-Dimethyl- phenol (105-67-9)	X			<5	ND					1	ug/l	lbs			
4A. 4,6-Dinitro-O- Cresol (534-52-1)	X			<5	ND					1	ug/l	lbs			
5A. 2,4-Dinitro- phenol (51-28-5)	X			<50	ND					1	ug/l	lbs			
6A. 2-Nitrophenol (88-75-5)	X			<5	ND					1	ug/l	lbs			
7A. 4-Nitrophenol (100-02-7)	X			<50	ND					1	ug/l	lbs			
8A. P-Chloro-M- Cresol (59-50-7)	X			<2	ND					1	ug/l	lbs			
9A. Pentachloro- phenol (87-86-5)	X			<25	ND					1	ug/l	lbs			
10A. Phenol (108-95-2)	X			<5	ND					1	ug/l	lbs			
11A. 2,4,6-Tril- chlorophenol (88-06-2)	X			<5	ND					1	ug/l	lbs			

Koppers003801

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	A. YES/NO/RE-QUIR-ED	B. RELIEVED/RE-SENT	C. BE-LIEVED/AS-SENT	B. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		U. NO. OF ANAL-YES	S. CONCENTRATION	D. MASS	B. LONG TERM AVERAGE VALUE		D. NO. OF ANAL-YES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION — BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)	X			<5	ND					1	ug/l	lbs			
2B. Acenaphthylene (208-96-8)	X			<5	ND					1	ug/l	lbs			
3B. Anthracene (120-12-7)	X			<5	ND					1	ug/l	lbs			
4B. Benzidine (92-87-5)	X			<10	ND					1	ug/l	lbs			
5B. Benzo (a) Anthracene (56-55-3)	X			20	0.029					1	ug/l	lbs			
6B. Benzo (a) Pyrene (50-32-8)	X			9	0.013					1	ug/l	lbs			
7B. 3,4-Benzo-fluoranthene (205-99-2)	X			10	0.014					1	ug/l	lbs			
8B. Benzo (ghi) Perylene (191-24-2)	X			<5	ND					1	ug/l	lbs			
9B. Benzo (k) Fluoranthene (207-08-9)	X			10	0.014					1	ug/l	lbs			
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)	X			<5	ND					1	ug/l	lbs			
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)	X			<5	ND					1	ug/l	lbs			
12B. Bis (2-Chloroisopropyl) Ether (102-60-1)	X			<5	ND					1	ug/l	lbs			
13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7)	X			<5	ND					1	ug/l	lbs			
14B. 4-Bromophenyl Phenyl Ether (101-55-3)	X			<5	ND					1	ug/l	lbs			
15B. Butyl Benzyl Phthalate (85-68-7)	X			<5	ND					1	ug/l	lbs			
16B. 2-Chloronaphthalene (91-58-7)	X			<5	ND					1	ug/l	lbs			
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)	X			<5	ND					1	ug/l	lbs			
18B. Chrysene (218-01-9)	X			<5	ND					1	ug/l	lbs			
19B. Dibenzo (a,h) Anthracene (53-70-3)	X			<5	ND					1	ug/l	lbs			
20B. 1,2-Dichlorobenzene (95-50-1)	X			<5	ND					1	ug/l	lbs			
21B. 1,3-Dichlorobenzene (541-73-1)	X			<5	ND					1	ug/l	lbs			

CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	B. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVG. VALUE (if available)		D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS	B. LONG TERM AVERAGE VALUE		D. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION — BASE/NEUTRAL COMPOUNDS (continued)															
22B. 1,4-Dichlorobenzene (106-46-7)	X			<5	ND					1	ug/l	lbs			
23B. 3,3'-Dichlorobenzidine (91-94-1)	X			<10	ND					1	ug/l	lbs			
24B. Diethyl Phthalate (84-66-2)	X			<5	ND					1	ug/l	lbs			
25B. Dimethyl Phthalate (131-11-3)	X			<5	ND					1	ug/l	lbs			
26B. Di-N-Butyl Phthalate (84-74-2)	X			<5	ND					1	ug/l	lbs			
27B. 2,4-Dinitrotoluene (121-14-2)	X			<10	ND					1	ug/l	lbs			
28B. 2,6-Dinitrotoluene (606-20-2)	X			<10	ND					1	ug/l	lbs			
29B. Di-N-Octyl Phthalate (117-84-0)	X			<5	ND					1	ug/l	lbs			
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)	X			<5	ND					1	ug/l	lbs			
31B. Fluoranthene (206-44-0)	X			10	0.014					1	ug/l	lbs			
32B. Fluorene (86-73-7)	X			<5	ND					1	ug/l	lbs			
33B. Hexachlorobenzene (118-74-1)	X			<5	ND					1	ug/l	lbs			
34B. Hexachlorobutadiene (87-68-3)	X			<5	ND					1	ug/l	lbs			
35B. Hexachlorocyclopentadiene (77-47-4)	X			<25	ND					1	ug/l	lbs			
36B. Hexachloroethane (67-72-1)	X			<5	ND					1	ug/l	lbs			
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)	X			<5	ND					1	ug/l	lbs			
38B. Isophorone (78-59-1)	X			<5	ND					1	ug/l	lbs			
39B. Naphthalene (91-20-3)	X			<5	ND					1	ug/l	lbs			
40B. Nitrobenzene (98-95-3)	X			<5	ND					1	ug/l	lbs			
41B. N-Nitrosodimethylamine (62-76-9)	X			<5	ND					1	ug/l	lbs			
42B. N-Nitrosodi-N-Propylamine (621-64-7)	X			<5	ND					1	ug/l	lbs			

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	A. TEST ING RE- QUIR- ED	B. SE- LIEVED PHAS- SENT	C. SE- LIEVED PHAS- SENT	B. MAXIMUM DAILY VALUE		D. MAXIMUM 30 DAY VALUE (if available)		E. LONG TERM AVRG. VALUE (if available)		F. NO. OF ANAL- YSES	G. CONCENTRATION	H. MASS	I. LONG TERM AVERAGE VALUE		J. NO. OF ANAL- YSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitro- sodiphenylamine (86-30-6)	X			<5	ND					1	ug/l	lbs			
44B. Phenanthrene (85-01-8)	X			<5	ND					1	ug/l	lbs			
45B. Pyrene (129-00-0)	X			11	0.0014					1	ug/l	lbs			
46B. 1,2,4 - Tri- chlorobenzene (120-82-1)	X			<25	ND					1	ug/l	lbs			
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)	X			<4	ND					1	ug/l	lbs			
2P. α -BHC (319-84-6)	X			<2	ND					1	ug/l	lbs			
3P. β -BHC (319-85-7)	X			<4	ND					1	ug/l	lbs			
4P. γ -BHC (58-88-9)	X			<4	ND					1	ug/l	lbs			
5P. δ -BHC (319-86-8)	X			<4	ND					1	ug/l	lbs			
6P. Chlordane (67-74-9)	X			<4	ND					1	ug/l	lbs			
7P. 4,4'-DDT (50-29-3)	X			<8	ND					1	ug/l	lbs			
8P. 4,4'-DDE (72-65-9)	X			<4	ND					1	ug/l	lbs			
9P. 4,4'-DDD (72-64-8)	X			<4	ND					1	ug/l	lbs			
10P. Dieldrin (60-57-1)	X			<4	ND					1	ug/l	lbs			
11P. α -Endosulfan (115-29-7)	X			<4	ND					1	ug/l	lbs			
12P. β -Endosulfan (115-29-7)	X			<8	ND					1	ug/l	lbs			
13P. Endosulfan Sulfate (1031-07-8)	X			<8	ND					1	ug/l	lbs			
14P. Endrin (72-20-8)	X			<4	ND					1	ug/l	lbs			
15P. Endrin Aldehyde (7421-93-4)	X			<10	ND					1	ug/l	lbs			
16P. Heptachlor (76-44-8)	X			<4	ND					1	ug/l	lbs			

CONTINUED FROM PAGE V-8

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
ORDQ27734359	001

TRANSFERRED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	8. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVG. VALUE (if available)		d. NO. OF ANALYSES	8. CONCENTRATION	b. MASS	8. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024-67-3)	X			<4	ND					1	ug/l	lbs			
18P. PCB-1242 (53469-21-9)	X			<5	ND					1	ug/l	lbs			
19P. PCB-1254 (11097-69-1)	X			<5	ND					1	ug/l	lbs			
20P. PCB-1221 (11104-28-2)	X			<5	ND					1	ug/l	lbs			
21P. PCB-1232 (11141-16-5)	X			<5	ND					1	ug/l	lbs			
22P. PCB-1248 (12672-29-6)	X			<5	ND					1	ug/l	lbs			
23P. PCB-1260 (11098-82-5)	X			<5	ND					1	ug/l	lbs			
24P. PCB-1016 (12674-11-2)	X			<5	ND					1	ug/l	lbs			
25P. Toxaphene (8001-35-2)	X			<5	ND					1	ug/l	lbs			

PAGE V-9

* U.S. G.P.O.:1992-312-020:63176

VEHICLE WASHING
TO CATCH BASIN



Catch Basin



PITCH FINES
RECYCLED
TO PROCESS



OILS RECYCLED
TO PROCESS

STORMWATER CATCH BASINS

Catch Basin

Catch Basin

Catch Basin

Catch Basin

Catch Basin

BOILER
BLOWDOWN

Oil/Water Separator

WW-1

WW-2

WW-3

WW-4

WW-5

WW-6

46,000 GAL
EACH

20,000 GAL
EACH

STORMWATER
SURGE TANKS

OUTFALL 001
27,000 GPD AVG
175,000 GPD MAX

SANITARY WASTE

200 GPD AVG
350 GPD MAX

TO
CITY OF
PORTLAND

MAIN OFFICE

BATH HOUSE

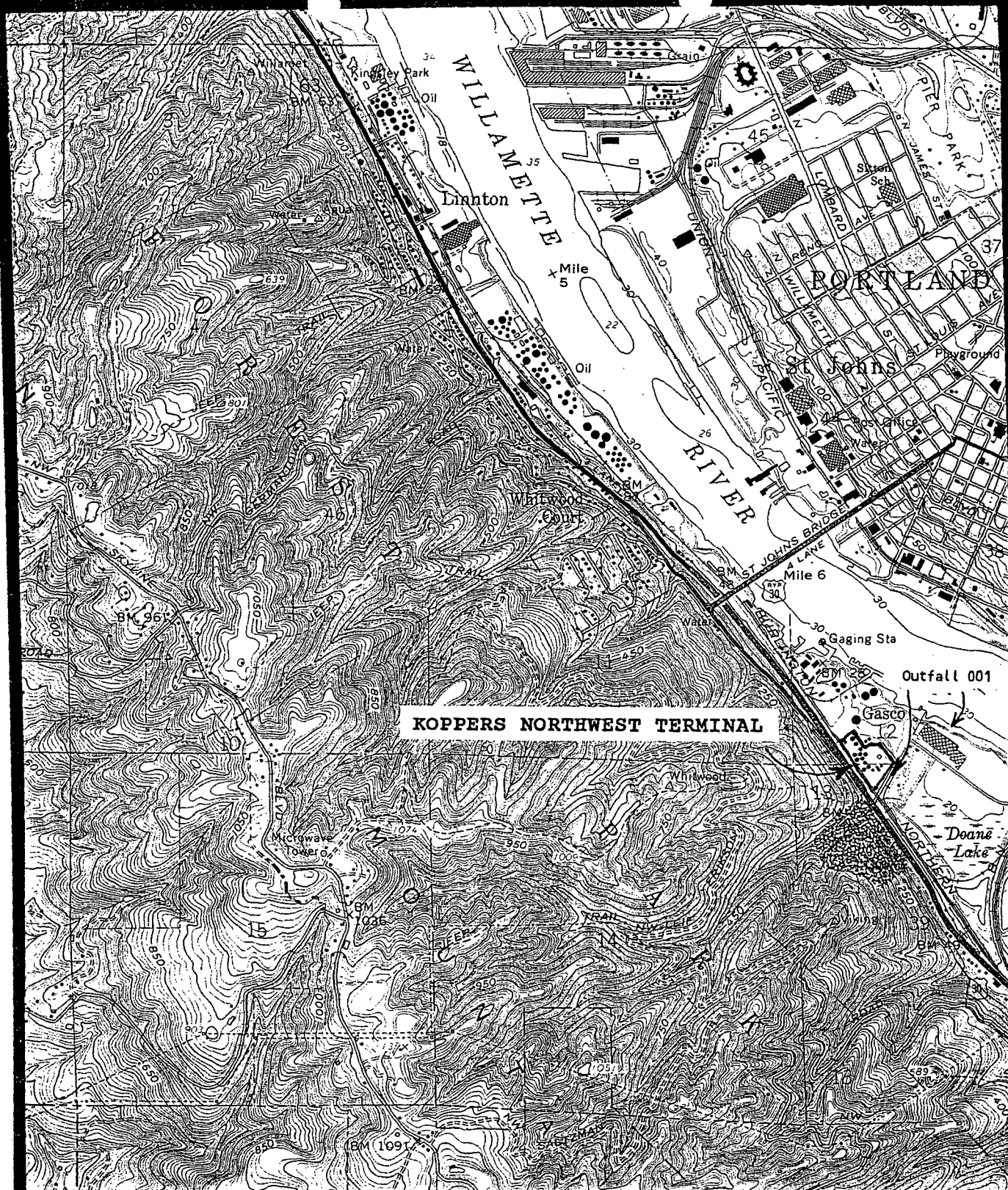
WATER FROM CITY OF PORTLAND

**KOPPERS
INDUSTRIES**

Portland Terminal
Portland, OR

**WASTE WATER
FLOW PLAN**

Revised January 1, 1997



**KOPPERS
INDUSTRIES**

PITTSBURGH, PA

NORTHWEST TERMINAL

**LATITUDE: 045D 34M 38S
LONGITUDE: 122D 45M 32S**

**USGS MAP
LINNTON
QUADRANGLE
OREGON
SERIES 7.5 MIN**

Material Safety Data Sheet

QUICK IDENTIFIER

Common Name: (Used on label and list)

May be used to comply with OSHA's Hazard Communication Standard, 29CFR 1910.1200. Standard must be consulted for specific requirements.

SECTION 1 -

Manufacturer's Name	Chemical Corporation of America	Emergency Telephone No.	(503) 232-3334
Address	2525 S.E. 9th Avenue	Other Information Calls	(503) 232-3334
City, State, ZIP	Portland OR 97202	Date Prepared	9/25/91. Revised 05/23/97
Signature of Person Responsible for Preparation (Optional)			

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Component(s) (chemical & common name(s))	% (optional)	OSHA PEL	ACGIH TLV	Other Exposure Limits	CAS NO.
Petroleum Hydrocarbon		500 ppm	200 ppm	TLV/STEL 200 ppm	64742-88-7

SARA Section III, Section 313 Hazardous Chemicals: None

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point	350° - 367° F.	Specific Gravity (H ₂ O = 1)	0.76	Vapor Pressure (mm Hg)	2.2
	Vapor Density (Air = 1)	5.3			
Solubility in Water	Emulsifiable	Reactivity in Water	None		
Appearance and Odor	Clear, Yellow Liquid, Citrus Odor	Melting Point	Unknown		

SECTION 4 - FIRE & EXPLOSION DATA

Flash Point	147°F. C.	Method Used	C.O.C.	Flammable Limits in Air % by Volume	LEL Lower 1.0	UEL Upper 7.0
Auto-Ignition Temperature	Unknown	Extinguisher Media	Water spray or fog, foam, dry chemical or CO ₂			
Special Fire Fighting Procedures	Do not use a direct water stream. Avoid any accumulation of water as product will float. Firefighters should use self-contained breathing apparatus and protective clothing.					
Unusual Fire and Explosion Hazards	Cool fire-exposed containers, surrounding equipment and structures with water.					

SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

CHEMCOA 1035-A

Stability Unstable ☐ Conditions to Avoid ☒ High heat and open flames

Incompatibility (Materials to Avoid) Oxidizing materials.

Hazardous Decomposition Products Carbon monoxide, carbon dioxide and unidentified organics.

Hazardous Polymerization May Occur ☐ Conditions Will Not Occur ☒ to Avoid None known.

SECTION 6 - HEALTH HAZARDS

1. Acute (Immediate) Eye & pulmonary irritation. 2. Chronic (Delayed Effect) None reported

Signs and Symptoms of Exposure Coughing, dizziness and drying of skin. Mists irritate eyes, mucous membranes and upper respiratory tract.

Medical Conditions Generally Aggravated by Exposure None known.

Chemical Listed as Carcinogen or Potential Carcinogen

National Toxicology Program Yes ☐ No ☒I.A.R.C. Monographs Yes ☐ No ☒OSHA Yes ☐ No ☒

Emergency and First Aid Procedures If over-exposure occurs, follow procedures outlined below:

ROUTES OF ENTRY

1. Inhalation Remove victim to fresh air. Administer oxygen. Consult physician.
2. Eyes Flush w/water for 15 minutes. If irritation persists, consult physician.
3. Skin Wash affected area with soap and water. Launder clothes before reuse.
4. Ingestion Do not induce vomiting. Aspiration hazard. Immediately consult physician.

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage Store in a cool, dry place with adequate ventilation. Keep container closed when not in use.

Other Precautions Empty containers of this material contain residue. Observe all hazard practices for empty containers. Do not weld on or cut empty containers.

Steps to be Taken in Case Material is Released or Spilled Eliminate sources of ignition. Contain spill with a non-combustible absorbant, and place in drums for disposal. Do not discharge into sewer system.

Waste Disposal Methods (Consult federal, state, and local regulations) Dispose of wastes in compliance with federal, state and local regulations.

SECTION 8 - SPECIAL PROTECTION INFORMATION/CONTROL MEASURES

Respiratory Protection (Specify Type) None normally required. If mists generated, use NIOSH approved respirator.

Ventilation recommended Local Exhaust Recommended (General) if needed Special none Other none

Protective Gloves Rubber or Neoprene Eye Protection Goggles, eye wash fountain

Other Protective Clothing or Equipment Long sleeves and trousers.

Work Hygiene Practices Wash thoroughly after handling.

IMPORTANT

Do not leave any blank spaces. If required information is unavailable, unknown, or does not apply, so indicate.
C.U.F.I.R. Printed by Labelmaster, An American Labelmark Company, Chicago, IL 60648 (800) 621-5808



CITY OF PORTLAND ENVIRONMENTAL SERVICES



Water Pollution Control Laboratory
6543 N. Burlington Ave., Portland, Oregon 97203-5452
(503) 823-5600

December 7, 1999

Koppers Industries, Inc.
William E. Swearingen
436 Seventh Ave
Pittsburgh, PA 15219-1800

RE: Renewal of Industrial Wastewater Discharge Permit # 314.001

Dear Mr. Swearingen:

Thank you for returning your permit renewal material before the deadline date. I apologize for the delay on my part. Enclosed please find:

- Renewed: Industrial Wastewater Discharge Permit (#314.001)
- Industrial Source Control Division Statement of Non-Discharge, due January 21, 2000
- ASPP review, due January 21, 2000
- Current fact sheet for your review.

The enclosed permit has been modified, with minimum requirements, for those industries that have no potential to discharge to the City sewer system. The new permit will ease the cost of the new service fees to a flat rate of \$422.00 annually. This fee will be assessed at a rate of 1/3 of the actual amount with the full fees to be phased in by July 2001.

There is no longer a Non-Discharge Certification Report due semi-annually however, there will be an annual inspection performed and an annual Certification Report at that time. Also, I ask that you review and update, if necessary, your current Accidental Spill Prevention Plan. If after your review, you find that no revisions are needed, please send a letter indicating no revisions were needed by January 21, 2000.

If you have any questions or comments, please do not hesitate to contact me at (503) 823-5556.

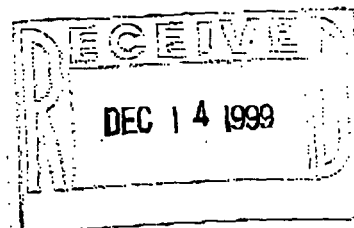
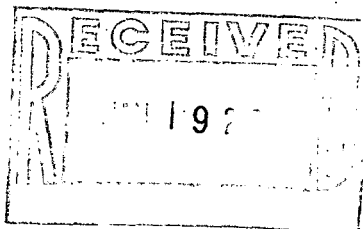
Respectfully,

Colleen F. A. Harold.

Colleen F.G. Harold, Permit Manager
Industrial Source Control Division, Bureau of Environmental Services.

CC: T. SELF, R-1800

M. Cilley, St. Coney



Koppers003810



CITY OF PORTLAND ENVIRONMENTAL SERVICES



Water Pollution Control Laboratory
6543 N. Burlington Ave., Portland, Oregon 97203-5452
(503) 823-5600

Expiration Date: 10/1/2004
Permit Number: 314.001

Categorical Industrial User Permit (No Potential to Discharge)

Issued to: Kopper's Industries, Inc.
Plant Type: Blending and melting of creosote and tar pitch
Location: 7540 NW St. Helen's Rd.
Portland, OR 97210
SIC Code: 2865
EPA Category: 414.7 Organic Chemicals
Responsible Official: Amos Kameron
Phone Number: (503) 286 - 3681
Expiration Date: 10/1/2004

The permittee is authorized to discharge domestic wastewater and non-categorical regulated process wastewater to the City of Portland city sewer system in compliance with Chapter 17.34 of the City Code. No industrial process wastewater associated with 40 CFR #414.7 Bulk Organic, Processing shall be discharged to the city sewer without prior written approval from the City.

It is the permittee's duty to comply with all conditions of this permit. Any non-compliance of this permit constitutes a violation of Chapter 17.34 of Portland's City Code and, as such, subjects the permittee to enforcement actions.

Effective Date: This permit shall be effective on the date signed below, and shall supercede all previous permits. This permit shall remain in effect for five years or until notification of termination is received from the City, whichever comes first.

Industrial Source Control Manager:

Shirley Bauman

Effective Date:

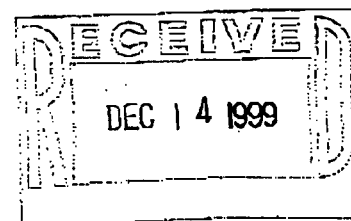
12-15-99

Prepared By:

CHM

Checked By:

MAAS



**Schedule A
Compliance Conditions****Expiration Date: 10 /1/2004**
Permit Number: 314.001
Page: 1

**Schedule A
Compliance Conditions****I. Administrative Requirements:****a. Non-Transferability**

This permit is not transferable. In case of a change of ownership, the permittee shall notify the City with the change, along with the name, address and phone/fax numbers of the new owners. The new owners shall contact the City and request an issuance of a new NDCIU permit.

b. Records Retention

All records of activities to comply with this permit shall be retained by the industry for a minimum of three years. This retention period shall be extended during the course of any unresolved litigation pertaining to the discharge of pollutants by the authorized discharger or whenever, it is requested by the City.

c. Accidental Spill Protection Plan (ASPP)

If chemicals are on site then they must be stored in a manner that will prevent the entry of these substances into the sanitary, combined, or storm sewer system or waters of the state. If chemicals are used or stored the industry must prepare and submit to the City, for approval, an ASPP within 90 days of the permit effective date. The plans shall include the following elements:

- A description of the hazardous substances handled and their potential points of entry into the City sewer system or storm runoff.
- A description of the measure to be taken to prevent entry at the described points and the measures to contain a spill if one occurs.
- A description of employee training in the prevention and control of spills.
- A posted notice informing employees that the discharge of industrial wastewater is prohibited and that notification must be made to the Bureau of Environmental Services (BES) at 503-823-7180 in the event of any spill, accidental or uncontrolled.

d. Right of entry

The industry shall, at all reasonable times, allow authorized City representatives to enter and have access to the permittee's premises for the purposes of inspecting and evaluating any certification records, or disposal methods associated with this permit.

**Schedule A
Compliance Conditions**

Expiration Date: 10 /1/2004
Permit Number: 314.001
Page: 2

II. Reporting Requirements:

- a. **Non-Discharge Certification**
A Statement of Non-Discharge certificate must be signed annually by the responsible official or designated authority. This certificate must be submitted to the City no later than January 15 of the following year.
- b. **Changes in Wastewater Characteristics**
The authorized permittee shall give notice to the Industrial Source Control Division, 90 days before any facility expansion, production increase, or process modifications resulting in a potential to discharge or resulting in a change in status of potential to discharge.
- c. **Accidental Spill or Discharge**
The authorized permittee shall notify the City immediately, either in person or by telephone (503-823-7180), if any accidental spill or discharge to the sanitary sewer occurs. A formal written report, discussing circumstances and remedies, shall be submitted to the City within 5 days of the occurrence.
- d. **Hazardous Waste Notification**
The industrial user shall notify the Industrial Source Control Division Section, the POTW, the EPA Regional Waste Management Division Director, and State hazardous waste authorities in writing of any discharge into the POTW of a substance, which, if otherwise disposed of, would be a hazardous waste as set forth in 40 CFR Part 261. Such notification must include the name of the hazardous waste as set forth in 40 CFR Part 261, the EPA hazardous waste number, and the type of discharge (continuous, batch, or other). If the industrial user discharges more than 100 kilograms of such waste per calendar month to the POTW, the notification shall also contain the following information to the extent such information is known and readily available to the industrial user: an identification of the hazardous constituents contained in the wastes, an estimation of the mass and concentration of such constituents in the wastestream discharged during that calendar month, and an estimation of the mass of constituents in the wastestream expected to be discharged during the following 12 months.
- e. **Plant Closure**
In the event the authorized permittee plans to cease operations at the present business location, and decide not to relocate within the City of Portland's jurisdiction, the authorized permittee shall inform this office, in writing, 60 days prior to plant closure.
- f. **The City may be notified at 503-823-5600 (telephone), 503-823-5559 (facsimile), or write to:**

Industrial Source Control Division
Bureau of Environmental Services
6543 N Burlington Avenue
Portland, OR 97203



CITY OF PORTLAND ENVIRONMENTAL SERVICES



Water Pollution Control Laboratory
6543 N. Burlington Ave., Portland, Oregon 97203-5452
(503) 823-5600

Industrial Source Control Division Statement of Non-Discharge

Company Name: _____

Facility Address: _____

Telephone Number: _____

(503) _____

I certify under penalty of law that for the year: **1999**,

☐ **NO CATEGORICAL PROCESS WASTEWATER** was discharged to the City of Portland's sewerage system.

☐ Yes ☐ No **Non-Categorical Process Wastewater** was discharged to the City of Portland's sewerage system. (Please mark one).

I have incorporated alternative methods of eliminating all wastewater generated from my categorical industrial processes in compliance with all applicable City, State and Federal laws and regulations.

I understand that by signing this statement I am certifying that, as of this date, **only domestic wastewater or non-categorical process wastewater** is discharged to the City's sewer system. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Official Signature: _____

Title: _____

Date: _____

This report is due to the City of Portland, at the above address, by **January 15, 2000**.

**CITY OF PORTLAND - INDUSTRIAL SOURCE CONTROL DIVISION
INDUSTRY FACT SHEET - INDUSTRIAL USER INFORMATION**

Company Name :	Kopper's Industries, Inc.		
Nature of Business	Blending and melting of Creosote and tar Pitch.		
Site Address:	7540 NW St. Helen's Rd. Portland, OR 97210	Mailing Address:	<u>William E. Swearingen</u> 436 Seventh Ave. Pittsburgh, PA 15219-1800
Signatory Auth.:	Amos Kamerer Plant Mgr.	Alternate Contact:	<u>William E Swearingen</u>
Telephone # :	(503) 286 - 3681	Telephone #:	(412) 227 - 2883
Facsimile # :	(503) 285 - 2831	Facsimile #:	(412) 227 - 2423
Permit # :	#314 - 001	SIC Code:	2865
Permit Manager:	Colleen F.G. Harold	Prev. Permit Mgr.:	Stephen Rosenberger Christina Anderson
Expiration Date :	10/1/1999	Last Permit Rev.:	
Water Account # :	#4640172034 M 0178	Water Usage (GPD):	7,650 gpd
Discharge (GPD):	315 gpd	# of employees:	10
Hours of Prod.:	24 hr. 4-5 days / week	# of Shifts:	3 shifts
Total Area :	6.4 Acres	Area to Storm	5.8 Acres
Storm. Permit #:	# 47,430	Permit Manager:	John Holtrop
Main Pump Station			
Other Environmental Permits:	NPDES #101003 DEQ Air Permit		
USEPA Category:	US EPA Category - 414.7 (Organic Chemicals)		
CoP Classification:	P-4, Categorical IU Non-discharger (300 Series Permit)		
Point of Compliance:	End-of-process		
Emergency Contact	Amos Kamerer	After Hours phone	(503) 286 - 3681
Safety Considerations:	Steel Toed Boots, Hard Hat, Safety Glasses		

Resources used to prepare the Fact Sheet. Check all that apply

Previous Permit	✓	Monitoring Data	✓
Permit Application	✓	MSDS Information	✓
Survey I	✓	Fire Marshall Report	✓
Survey II		Site History	✓
Site Inspection	✓	Corporate Report	
Compliance History	✓	Similar Operations	✓

1. BUSINESS DESCRIPTION:

Kopper's Industries Inc. is a terminal facility for coal tar based products handling pencil pitch, liquid pitch, creosote, creosote distillates and refined coal tars. As of 1999 they no longer handle coal tar. Kopper's Industries, Inc. performs blending and melting of Coal products including Creosote and Tar Pitch. They take in raw materials, melt, blend, and ship out product. No water is used in their process and no wastewater is generated. They distribute 1,500 tons a week of product by rail and truck. The product is used in cosmetics and aluminum foundries.

They have an NPDES Permit for storm water runoff and boiler blow down discharge to the river. The tank farm consists of 3 tanks with hot oil, 2 with Pitch and 3 tanks for storm water collection. All storm water goes to the tank farm and through the oil water separator.

Kopper's and Pacific Northern Oil are tenants of NW Natural Gas. Kopper's was started in 1965 and NW Natural Gas has been on the site since 1912. They are presently adding a new dock and pipeline as well as, two large storage tanks for liquid pitch (1998-1999). The line travels the footbridge at an 8-inch diameter and once it clears the bridge and a pump it expands to a 10-inch diameter. The pipeline has built in expansion loops to accommodate the cooling and heating of the product (it expands as a liquid). Kopper's expects to be handling two million gallons (10,000 short tons) of liquid material by 2002.

Kopper's Industries, Inc is a categorical IU, per 40 CFR 414.7. Because they are non-discharging, they are given a 300 series permit.

2. DESCRIPTION OF PROCESSES GENERATING WASTEWATER:
2a POTENTIAL TO DISCHARGE (For Non-Dischargers)

In the event of not being able to meet the NPDES Permit requirements they might be forced to release directly to the City of Portland's sanitary sewer.

Domestic Sanitary Wastewater
NPDES Permit. – Storm Water & Boiler Blow Down

3. RAW WASTEWATER DESCRIPTION:

This facility does not produce process wastewater. Stormwater is discharged through a regulated outfall into the Willamette River in compliance with their NPDES permit. Only sanitary waste is discharged to the city sewer.

4. PRETREATMENT

No wastewater is produced in their process.

\\VAREL\GRP102\CUSTOMER\IU-K\KOPPERS\PERMIT\FORMS\99fctshf.doc

6. ANALYSIS OF DISCHARGE DATA : *No Data Available*

Pollutants of Concern # Violations/#Spl.	Company Data		Local Limit (Flow Weighted Average Adjusted 1992 Data)	Pollutant Level of Concern
	Avg. For Period 01/92-11/96	Maximum Value		
Arsenic 0/0				
Cadmium 0/0				
Chromium 0/0				
Copper 0/0				
Lead 0/0				
Molybdenum 0/0				
Nickel 0/0				
Selenium 0/0				
Silver 0/0				
Zinc 0/0				
Cyanide-T 0/0				
Oil/Grease (NP) 0/0				
pH 0/0				
TSS 0/0				

7. POLLUTANTS OF CONCERN:

Kopper's Industries Inc. is a terminal facility for coal tar based products handling pencil pitch, liquid pitch, creosote, creosote distillates and refined coal tars. Occasional spillage of materials from loading and unloading operations has warranted paving and berming to ensure adequate containment of materials. They are also on a clean sweep schedule 10 times a year. Most materials are cleaned up and recycled back into product those that aren't are hauled away by Chem-Waste out of Hillsboro. Most material is inert and can be land filled.

8. DISCUSSION OF PERMIT SPECIFIC LIMITS: None

9. APPLICABLE LIMITS: (mg/l) (indicated in bold)

Parameter	Required In Schedule B	Categorical Limit <i>Daily Max. Die Cast Aluminum</i>	Local Limit	Permit Specific Limits	Categorical Limit <i>Daily Max. Die Cast Zinc</i>
arsenic	0.2		0.3		
cadmium	0.7		0.7		
chromium	5.0		3.8		
copper	3.7		2.3		
lead	0.7		0.7		
mercury	0.010		0.014		
molybdenum	1.4				
nickel	2.8		3.0		
selenium	0.6				
silver	0.4		0.4		
zinc	3.7		4.0		
total phenols					
pH	5.0-11.5				
cyanide	1.2				
cyanide					
NP oil/grease	110				
TTO					
Sulfide (dissolved)	4.0				

Bolded Values represent applicable limits that appear in Schedule A of the Permit. Pollutants that are bolded and underlined represent parameters that will be monitored by the Industrial User.

10. ADDITIONAL MONITORED POLLUTANTS: None

11. SUMMARY OF COMPLIANCE HISTORY:

Good compliance history, no violations.

10. MONITORING AND REPORTING ANALYSIS: (Refer to Discharge Risk Analysis Score Table)

Parameter	Points
Q _{flow}	Domestic 0
N _{pollutants}	3 1
BOD _{average}	N/A 0
TSS _{average}	N/A 0
pH _{potential}	None 0
Chemical Storage	High 3

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Parameter	Points
P _{retreated pollutants}	0
TOTAL:	4

Discussion -

Q - Domestic sewer flow 515 gpd to the City Sewer

N_p -

BOD - None

TSS - None

pH - .No pH problems

Chemical Storage -Pencil Pltch storage buildings, also keep three drums of diesel fuel.

P_N -

DRA Determination Table

Discharge Point Range	City Samples per Year	Self Samples per Year	Inspections per Year	Number of Inspections
3 - 6	1	2	bi-annual	1
7 - 11	2	4	1	1
12 - 16	4	6	1	1
17 - 21	6	8	1	1
22 - 26	8	12	1-2	1-2
27 - 31	12	26	2	1-2
32 - 35	26	52	2-4	1-2

MINIMUM INDUSTRIAL USER COMPLIANCE MONITORING REQUIREMENTS

Analysis	Monitoring Frequency		
	City Monitoring	Self Monitoring	Inspection Frequency
Minimum Requirement P-1	Semi-Annual	Quarterly	Annual
Minimum Requirement P-2	Annual	Semi-annual	Bi-annual
DR-10-100	1	2	Annual
Recommendation	Semi-Annual	Semi-annual	Annually

Note: If the recommendation is different than the DRA guidance, please explain.

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13. PERIODIC SELF MONITORING FREQUENCY

<u>SELF MONITORING FREQUENCY</u>	
<u>DRA:</u>	0
<u>Monthly:</u>	0
<u>Quarterly:</u>	0
<u>Semi-Annually:</u>	Semi - Annual Non-Discharge Certification Report Submitted twice yearly.
<u>Annually:</u>	0
<u>Special Reports:</u>	None at this time.

14. SPECIAL CONDITIONS: None15. MISCELLANEOUS INFORMATION:16. ATTACHMENTS:A: PROCESS DIAGRAM:B: DIAGRAM OF DISCHARGE POINTS & POINT OF COMPLIANCE: N/AC: CLASSIFICATION FORM #5-2D: DISCHARGE LIMITS CALCULATIONS: N/AE: PRODUCTION DATA: N/A

F. CMS FORM N/A non discharger

Log of Fact Sheet Changes

<u>Date</u>	<u>Changes</u>
10/20/1998	Updating fact sheet for industries
6/23/99	Updated fact sheet from Inspection
10/3/1999	Permit Renewal

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Prepared by: Colleen F.G. HaroldDate: 10-4-1999TL Approval: MASDate: 10/11/99

For New/Renewed Permits:

ISCD Approval: _____

Date: _____

Attachment C.

INDUSTRIAL USER CLASSIFICATION EVALUATION SHEET*Applicable Classification is denoted by bold typeface.*

DESCRIPTION	CLASS
1. Categorical regulated IU with regulated process discharge	P-1
2. Non-categorical IU with process discharge >25,000 gpd	P-1
3. Non-categorical IU with process discharge <25,000 gpd and/or ESSC	P-2
4. Non-categorical IU with process discharge <25,000 gpd and is required to pretreat wastewater (excludes O/WS)	P-2
5. Non-categorical IU with process discharge <25,000 gpd with a POC above PLOC in discharge	P-2
6. Non-categorical IU with a process waste mass discharge of a POC \geq 10,000 gpd LL _{eq} mass discharge	P-2
7. Non-categorical IU with a process discharge <6,000 gpd and a POC greater than a PLOC or requires a O/WS or ASPP	NP-1
8. Non-categorical IU with process discharge <6,000 gpd with no POCs in wastewater or need for an ASPP or POC level is less than PLOC	NP-2
9. Non-categorical IU with no process waste discharge but is a division D manufacturer and/or has potential for spills of hazardous substances	NP-3
10. Non-categorical IU with no process waste discharge, no manufacturing and no potential for spills of hazardous substances (office, shoe store, steel brokerage office)	NP-4

If, as a result of this review and Fact Sheet preparation, a permit is not issued, discuss reasons and forward to Permitting Section Supervisor.



Koppers Industries, Inc.
436 Seventh Avenue
Pittsburgh, PA 15219-1800

Telephone: (412) 227-2001
Fax: (412) 227-2423

September 13, 1999

City Of Portland
Environmental Services
Water Pollution Control Laboratory
6543 N. Burlington Ave.
Portland, Oregon 97203-5452

Colleen F. G. Harold, Permit Manager
Industrial Source Control Division, Bureau of Environmental Services

RE: RENEWAL OF INDUSTRIAL WASTEWATER DISCHARGE PERMIT #314-001

Dear Colleen:

Enclosed please find a completed renewal application for Industrial wastewater permit #314-001. A \$50 renewal fee is also enclosed. Koppers Industries Inc. (KII) understands the current wastewater discharge permit will be extended until the permit is renewed.

If you have any questions please contact me at (412) 227 2883.

Sincerely,

A handwritten signature in cursive script, appearing to read "Traci I. Self".

Traci I. Self
Environmental Manager

Enclosure (1)

cc: Amos Kameroner
Mark Cilley

Koppers003822

Z 047 959 728

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (*See reverse*)

Self 1800

PS Form 3800, April 1995

Sent to	
City of Portland	
Street & Number	
6543 N. Burlington Av	
Post Office, State, & ZIP Code	
Portland, OR 97203-5452	
Postage	\$.99
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$ 3.64
Postmark or Date	



Stick postage stamps to article to cover First-Class postage, certified mail fee, and charges for any selected optional services (*See front*).

1. If you want this receipt postmarked, stick the gummed stub to the right of the return address leaving the receipt attached, and present the article at a post office service window or hand it to your rural carrier (*no extra charge*).
2. If you do not want this receipt postmarked, stick the gummed stub to the right of the return address of the article, date, detach, and retain the receipt, and mail the article.
3. If you want a return receipt, write the certified mail number and your name and address on a return receipt card, Form 3811, and attach it to the front of the article by means of the gummed ends if space permits. Otherwise, affix to back of article. Endorse front of article **RETURN RECEIPT REQUESTED** adjacent to the number.
4. If you want delivery restricted to the addressee, or to an authorized agent of the addressee, endorse **RESTRICTED DELIVERY** on the front of the article.
5. Enter fees for the services requested in the appropriate spaces on the front of this receipt. If return receipt is requested, check the applicable blocks in item 1 of Form 3811.
6. Save this receipt and present it if you make an inquiry.

102595-97-B-0145

PS Form 3800, April 1995 (Rev. 9/95)



CITY OF PORTLAND ENVIRONMENTAL SERVICES



Water Pollution Control Laboratory
6543 N. Burlington Ave., Portland, Oregon 97203-5452
(503) 823-5600

INDUSTRIAL WASTEWATER DISCHARGE PERMIT APPLICATION

The City of Portland (the City) is required by the federally mandated Pretreatment Program (40 CFR 403.8(f)(2)), to develop and implement procedures that:

- (1) Identify and locate all possible Industrial and Commercial Users which might be subject to the Publicly Owned Treatment Works (POTW) Pretreatment Program requirements.
- (2) Characterize the type and volume of pollutants contributed to the POTW by the Industrial and Commercial Users as identified under (1) above.

By completing the *Industrial Wastewater Discharge Permit Application*, you are helping the City complete its requirements.

Confidential Information

As outlined in 40 CFR 403.14 (a)-(c) and ORS 192.430, any information submitted to the City under the Pretreatment Program requirements may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission in the manner prescribed on the application form or instructions, or, in the case of other submissions, by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, the City may make the information available to the public without further notice. If a claim is asserted, the information will be treated in accordance with the procedures in 40 CFR part 2 (Public Information) and ORS 192.440(2).

Information and data provided to the City under these requirements which is effluent data shall be available to the public without restriction.

All other information which is submitted to the State or POTW shall be available to the public at least to the extent provided by 40 CFR 2.302 and ORS 192.440(2).

If, at any time, there is insufficient space to complete an answer, continue your response on a separate piece of paper. Indicate the section and question number next to your response.

INSTRUCTIONS: INDUSTRIAL WASTEWATER PERMIT APPLICATION
SECTION I: GENERAL FACILITY INFORMATION

1. Enter the name of the company, *i.e.*, the name of the company legally responsible for this facility.
2. Enter the name of the facility, such as the name used on letterhead and/or correspondence or advertising.
3. Enter the street address where the facility is located.
4. Enter the *mailing* address of the facility, if different from the facility street address above.
5. Enter the name, title, telephone number, and fax number of the person who is most familiar with the facts reported on this form and who can be contacted by City staff. Generally, this person is the facility's maintenance supervisor or engineer.
6. Enter the approximate month and year that operations began, or are proposed to begin, otherwise use best estimate.

INDUSTRIAL WASTEWATER DISCHARGE PERMIT APPLICATION

SECTION I: GENERAL INFORMATION

Confidential Information - Indicate those sections of this application that you wish to remain confidential as well as your reasons for requiring confidentiality. Wastewater discharge characteristics can not be considered confidential.

1. Koppers Industries, Inc.
(Company Name)

2. Portland Terminal
(Facility Name)

3. 7540 NW Saint Helens Road
(Facility Address, Street)

Portland OR 97210-3663
(City) (State) (Zip Code)

4. same as facility
(Mailing Address, Street/PO. Box)

(City) (State) (Zip Code)

5. Provide the name of the person to contact on information contained in this questionnaire:

Amos Kameron 503-286-3681
(Name) (Phone)

Plant Manager 503-285-2831
(Title) (Fax)

6. Initial startup date of operations at this facility: 1965

INSTRUCTIONS INDUSTRIAL WASTEWATER PE IIT APPLICATION
SECTION I: GENERAL FACILITY INFORMATION, Continued

7. Enter the name, title, telephone number, and fax number of the person who is responsible for responding or organizing a response to emergencies at this facility, and who can be contacted by City staff. These emergencies may include spills and chemical releases, fires, floods, or earthquakes.
8. Check the appropriate box and make the necessary changes or corrections to the enclosed document, if needed.

SECTION I: GENERAL FACILITY INFORMATION, Continued

7. Person to be contacted in case of an emergency at this facility:

<u>Amos Kamerer</u>	<u>503-286-3681</u>
Name	Phone
<u>Plant Manager</u>	<u>503-285-2831</u>
Title	Fax

8. Is all of the information previously submitted in your facility's *Environmental Survey Part II*, still current, up-to-date, and correct?

Yes ☒ No ☐

{A copy of your facility's Environmental Survey Part II is included for your reference.}

If you checked No, make the needed changes to the enclosed Environmental Survey Part II, initial and date all changes and send in the corrected copy of the Survey with the completed Permit Application.

INSTRUCTIONS: INDUSTRIAL WASTEWATER PERMIT APPLICATION
SECTION II: FACILITY PROCESS FLOW INFORMATION

1. Provide the daily average flows discharged in gallons per day (gpd) for the last 12 months. For estimating sanitary flow, use 25 gallons per employee per day. Be as specific as possible. If the exact amount of water is not known for each item, then estimate the amount as best as possible and note how the estimation was determined.
2. Check the appropriate box and provide the necessary information.

SI

SEE ATTACHED

PROCESS FLOW INFORMATION

1. For your facility manufacturing

for each of your processes or proposed processes (i.e., that may generate process wastewater).

Total Plant Flow in Gallons Per Day (gpd) discharged to the sanitary sewer collection system:

Daily Average 275

Daily Maximum 350

Individual Process Flows in Gallons Per Day (gpd)

Process Description	Average Flow, gpd	Maximum Flow, gpd	Type of discharge
Sanitary	275	350	batch
Discharge to surface waters (NPDES):			
Boiler blowdown/storm water	21,302	52,580	batch

2. Is an inspection or sampling manhole structure available on-site? Yes [] No [x]

- If No, is one planned? Yes [] No [x]

- If Yes, provide location below and include as part of the process flow schematic (see also Attachment B).

- Location description: _____

INSTRUCTIONS: INDUSTRIAL WASTEWATER PERMIT APPLICATION
SECTION II: FACILITY PROCESS FLOW INFORMATION, Continued

3. Check the appropriate boxes and provide the required information.
4. Briefly describe any previous spills of raw materials, products, or process wastes that were or may have been discharged to the sewer collection system. Also list all corrective actions that were taken to clean-up the spills and procedures that were put in place to prevent a re-occurrence.

SECTION II: F. FACILITY PROCESS FLOW INFORMATION, Continued

3. Do you have, or plan to have, automatic sampling equipment or continuous wastewater flow metering equipment in use or included in future plans?

- | | | | | | |
|---|----------|--------------------|---------|--------|---------|
| • | Current: | Flow Metering | Yes [] | No [X] | N/A [] |
| | | Sampling Equipment | Yes [] | No [X] | N/A [] |
| • | Planned: | Flow Metering | Yes [] | No [X] | N/A [] |
| | | Sampling Equipment | Yes [] | No [X] | N/A [] |

If Yes, describe the equipment below and indicate the present or future location of this equipment on the process flow schematic in Attachment B:

4. Please describe below, or on a separate sheet of paper, any previous spills or slug discharges from the facility. Also list the clean-up actions taken as well as the remedial measures put in place to prevent a reoccurrence.

Occasional spillage of materials from loading/unloading operations. Paving
paving and diking controls are adequate to contain materials. Most materials
are cleaned up and recycled back to product. Any solid waste is disposed of
in an appropriate manner.

INTRODUCTION: INDUSTRIAL WASTEWATER PERMIT APPLICATION
SECTION II: FACILITY WASTEWATER INFORMATION

This section, in two parts, details the collection of the necessary quantitative wastewater information required to establish applicable pretreatment limits and monitoring requirements for each industrial user. Contact the Industrial Source Control Division if there are any questions on what limits apply, what parameters to sample, sampling requirements, and from where to take the samples. Samples should be taken of the final effluent prior to discharge to the City's sewer collection system. If there is more than one discharge of process wastewater to the City's sewer lines, photocopy this page and supply the analytical results for all process wastewater discharges.

Existing Facility: (report results in concentrations (mg/L) or mass (lbs))

Each facility will sample, have analyzed, and report on all pollutants as specified by the City. If mass limits apply, the facility must report results on a mass basis (concentration x regulated process flow). Attach all calculations.

Samples collected must be representative and taken during peak production. Samples must be collected each day for three consecutive days, and analyzed separately.

New Facility: (report results in concentrations (mg/L) or mass (lbs))

This includes a new business moving into an existing facility or a new business proposing to construct a new building. A new facility should be in compliance with applicable pretreatment standards upon commencement of discharge and is required to sample and submit the final compliance report within 30 days of commencement of discharge. Because no discharge of process wastewater has occurred, provide your best estimate of the discharge. This estimate shall be confirmed through monitoring of the facility's effluent.

SECTION . . FACILITY WASTEWATER INFORMATION

TABLE 1 APPLICABLE LIMITS: ¹

Parameter	Suggested Analysis Method 40 CFR 136	Local Limit	Sample Type, Grab or Composite	Required Sampling
Metals				
Arsenic	200.7	0.2 mg/L	Composite	
Cadmium	200.7	0.7 mg/L	Composite	
Chromium	200.7	5.0 mg/L	Composite	
Copper	200.7	3.7 mg/L	Composite	
Lead	200.7	0.7 mg/L	Composite	
Mercury	245.1	0.010 mg/L	Composite	
Molybdenum	200.7	1.4 mg/L	Composite	
Nickel	200.7	2.8 mg/L	Composite	
Selenium	200.7	0.6 mg/L	Composite	
Silver	200.7	0.4 mg/L	Composite	
Zinc	200.7	3.7 mg/L	Composite	
Non-Metals				
BOD ₅	405.1		Composite	
Closed Cup Flash Point	ASTM D-93-80	>140 °F	Grab	
Cyanide	335.2	1.2 mg/L	Grab	
Non-polar Fats, Oil, & Grease	1664	110. mg/L	Grab	
pH	150.1	5.0-11.5 S.U.	Grab	
Total Toxic Organics	624 & 625	2.13 mg/L		
Total Suspended Solids	160.2		Composite	
Sulfide	376.2	4 mg/L	Grab	
Individual Organic Compounds				
Pentachlorophenol	625	0.04 mg/L	Composite	
Chlorobenzene	624	0.2 mg/L	Grab	
Chloroform	624	0.2 mg/L	Grab	
Trichloroethylene	624	0.2 mg/L	Grab	
1,2 Dichloroethane	624	0.5 mg/L	Grab	
2,4-Dinitrotoluene	625	0.13 mg/L	Composite	
Nitrobenzene	625	2.0 mg/L	Composite	
Acrylonitrile	603	1.0 mg/L	Grab	
Chlordane	625	0.03 mg/L	Composite	

NO ADDITIONAL
SAMPLING
REQUIRED
CASH.

¹ This table lists the applicable Local Limits for all Permitted Industrial Users. Categorical Industrial Users may have additional limits that apply.

INSTRUCTIONS INDUSTRIAL WASTEWATER PE IIT APPLICATION
SECTION III: FACILITY WASTEWATER INFORMATION

PART A. NON-CATEGORICAL INDUSTRIAL FACILITIES

1. Each Permitted Industrial User is required to perform self monitoring sampling and analyses to help document compliance with the pretreatment regulations. Provide the requested information even if all of the self monitoring analyses are performed by facility staff.
2. Provide the requested information. Most Commercial Laboratories participate in at least one performance evaluation or certification program to help insure and document that the data generated is valid and credible.
- 3.. After comparing the process wastewater data to the discharge limits that are listed in Table 1, check the appropriate box and complete as requested. Describe any additional O & M or installation of pretreatment equipment required to meet the listed discharge limits and attach a proposed compliance schedule. Specify the major events. After approval by the city, a Compliance Order will be put in place. Failure to comply with the approved schedule will subject the facility to enforcement actions.

SECTION II FACILITY WASTEWATER INFORMATION

PART A. NON-CATEGORICAL I

1. Provide name and address of the commercial

*PART A DOES NOT
APPLY TO KOPPERS
INSTEAD, FILL
OUT PART B.*

(Laboratory Name)

(Street Address)

(City)

(Phone)

(Fax)

2. List the Certification Program(s) in which the laboratory participates:

3. Compliance Certification: Compare the sample results against the listed Local Limits (Table 1).

- a.) Is the facility meeting applicable pretreatment standards on a consistent basis?

Yes ☐ No ☐ Don't Know ☐

If Don't Know, then compliance must be evaluated after the baseline monitoring is completed.

If No, do you require:

- b.) Additional operation and maintenance (O&M) to achieve compliance? Yes ☐ No ☐

- c.) New or additional pretreatment facilities to achieve compliance? Yes ☐ No ☐

If additional O&M or new or additional pretreatment equipment will be required for the facility to meet pretreatment standards on a consistent basis, attach a description of what is required and a proposed schedule for completion of the work.

- d.) I have provided a compliance schedule. Yes ☐ No ☐

Describe the compliance schedule of events on a separate sheet. Detail what the proposed work entails and the proposed due dates for each of the tasks involved. The proposed compliance schedule is subject to prior approval by the City.

INSTRUCTIONS: INDUSTRIAL WASTEWATER PERMIT APPLICATION
SECTION III: FACILITY WASTEWATER INFORMATION, Continued

PART B. CATEGORICAL INDUSTRIAL FACILITIES

1. List each regulated process, its production rate (i.e. 1,000 lbs. of product per day), the process wastewater flow rate in gpd, the applicable SIC code, and the pretreatment category. If the exact flow rate is not known for each process, then estimate the amount as best as possible and note how the estimation was determined.

Baseline Monitoring Report: As per 40 CFR 403.12, each Categorical Industrial User must submit a Baseline Monitoring Report (BMR). This report should identify the nature and concentrations of all regulated pollutants. In the case of new facilities this report must be submitted 90 days prior to the start of discharge. Estimates may be used but these estimates shall be confirmed through final compliance monitoring and reporting of the facility's effluent. If the effluent samples were taken at one combined point, indicate alongside the regulated process line what process flows are co-mingled at the sampling point. Contact the City's Industrial Source Control Division for guidance on where to take samples and how many samples to take.

2. Each Permitted Industrial User is required to perform self monitoring sampling and analyses to help document compliance with the pretreatment regulations. Provide the requested information even if all of the self monitoring analyses are performed by facility staff.
3. Provide the requested information. Most Commercial Laboratories participate in at least one performance evaluation or certification program to help insure and document that the data generated are valid and credible.

PART B. CATEGORICAL INDUSTRIAL FACILITIES

1. Summarize each regulated process: (report concentrations in mg/L or mass in lbs.).

Regulated Process Description	Production Rate	Process Flow	SIC Code	Pretreatment Category
Blending	N/A	N/A	2865	414 subpart C
Melting	"	"	"	"

*Start
Here*

Total plant flow: (In gallons per day, gpd) N/A

2. Provide name and address of the commercial testing lab(s) who is (are) performing analyses:

N/A

(Laboratory Name)

(Street Address)

(City)

(State)

(Zip Code)

(Phone)

(Fax)

3. List the Certification Program(s) in which the laboratory participates:

N/A

INSTRUCTIONS: INDUSTRIAL WASTEWATER PERMIT APPLICATION
SECTION III: FACILITY WASTEWATER INFORMATION, Continued

4. As discussed in question #1 of this subsection, a BMR includes sampling and analysis data of the facility's effluent. Daily maximum and average pollutant concentrations from each categorically regulated process must be reported. A report form is included as Attachment D. A minimum of four grab samples for pH, cyanide, phenols, oils & greases, sulfide, and volatile organics must be taken, if applicable to the facility's categorically regulated processes. For all other regulated pollutants, a 24 hour composite sample is required. All such samples must be representative of the facility's daily operations. After comparing the analysis data to the discharge limits listed in the appropriate subpart of 40 CFR and the Local Limits listed in Table 1, check the appropriate box and complete as requested. Describe any additional O & M or installation of pretreatment equipment required to meet the listed discharge limits and attach a proposed compliance schedule. Specify the major events, bench marks, needed to achieve compliance, as well as dates for completion of the events. After approval by the City, the compliance schedule will be in place. Failure to comply with the approved schedule will subject the facility to escalating enforcement actions.

5. Total Toxic Organics (TTOs): Facilities who use toxic organics, as listed by EPA in its published categorical pretreatment standards, are required to meet the TTO pretreatment standards. Each facility must initially sample for TTOs to determine compliance. After a facility is found to be in compliance with the TTO standard the Industrial User may adopt either a certification statement or a solvent management plan in lieu of having to periodically sample for toxic organics if these options are allowed under the facility's category. If you do not use toxic organics in your manufacturing process, you may not be required to sample for TTO. Contact the City's Industrial Source Control Division for guidance.

Check the appropriate boxes.

SECTION III: F. ILITY WASTEWATER INFORM ION, Continued

4. Compliance Certification: Compare the sample results against the listed Categorical Standards and those listed in the Local Limits (Table 1).

a.) Is the facility meeting applicable pretreatment standards on a consistent basis?

Yes ☐ No ☐ Don't Know ☐ N/A-No process wastewater discharge.

If Don't Know, then compliance must be evaluated after the baseline monitoring is completed.

If No, do you require:

b.) Additional operation and maintenance (O&M) to achieve compliance?

Yes ☐ No ☒

c.) New or additional pretreatment facilities to achieve compliance?

Yes ☐ No ☒

If additional O&M or new or additional pretreatment will be required for the facility to meet pretreatment standards on a consistent basis, attach a description of what is required and a proposed schedule for completion of the work.

d.) I have provided a compliance schedule.

Yes ☐ No ☒

Describe the compliance schedule of events on a separate sheet. Detail what the proposed work entails and the proposed due dates for each of the tasks involved. The proposed compliance schedule is subject to prior approval by the City.

5. Total Toxic Organics (TTOs): Facilities covered by a TTO pretreatment standard must initially sample for the listed TTOs to help determine compliance. Contact the City's Industrial Source Control Division for a listing of the TTOs applicable to your industrial category. See also the table in Attachment A.

a.) We presently use or plan to use toxic organics listed in the categorical pretreatment standards.

Yes ☐ No ☒ If "Yes" then:

b.) A solvent management plan has been developed and is attached.

Yes ☐ No ☒

If "No," attach a proposed schedule to develop and implement a Solvent Management Plan with due dates for each of the tasks involved. The proposed schedule is subject to prior approval by the City.

c.) I have provided a proposed schedule to develop and implement a Solvent Management Plan.

Yes ☐ No ☒

INSTRUCTIONS INDUSTRIAL WASTEWATER PERMIT APPLICATION
SECTION IV: SIGNATURES & CERTIFICATIONS

The Qualified Professional Certification pertains to the actual preparer of this form if different than the Responsible Corporate Official. Said person could be a consultant or professional engineer hired to gather and prepare the required information for this application.

This form shall be signed by a Responsible Corporate Official, as defined in 40 CFR 403.12(l). Said person may be either a general partner, a corporate officer, or by a duly authorized representative who has responsibility for the overall operation of the facility that discharges process wastewater to the City's sewer.

**Photocopy the completed survey form for your records and return the
original survey to:**

Industrial Source Control Division
City of Portland Environmental Services
Water Pollution Control Laboratory
6543 N. Burlington Avenue
Portland, OR 97203-5452

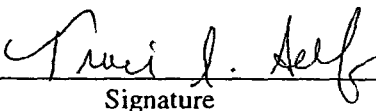
SECTION IV: SIGNATURES & CERTIFICATIONS

Qualified Professional Certification:

I hereby certify under penalty of law that this information was obtained in accordance with the applicable procedures and requirements as specified in the General Pretreatment Regulations and amendments thereto and the City's sewer use ordinance. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Traci Self

Name (print)



Signature

Environmental Manager

Title

9/13/99

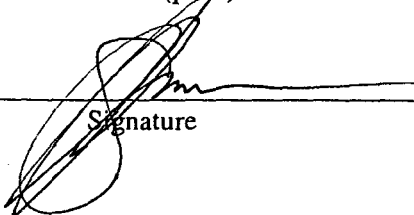
Date

Authorized Representative Statement: {40 CFR 403.6(a)(2)(ii)}

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief is true accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Amos Kamerer

Name (print)



Signature

Plant Manager

Title

9/10/99

Date

ATTACHMENT A PRIORITY POLLUTANTS

Priority Pollutant Information

- Indicate by placing an "X" in the appropriate space by each listed chemical whether it is Suspected to be Absent, Known to be Absent, Suspected to be Present, or Known to be Present in your manufacturing or service activity, or generated as a byproduct.

No.	Pollutant of Concern	Known Absent	Suspected Absent	Suspected Present	Known Present	Annual Usage (lb./yr.)	Loss to Sewer (lb./yr.)
1.	ammonia						
2.	asbestos (fibrous)						
3.	cyanide (total)						
4.	antimony (total)						
5.	arsenic (total)						
6.	beryllium (total)						
7.	cadmium (total)						
8.	chromium (total)						
9.	copper (total)						
10.	lead (total)						
11.	mercury (total)						
12.	nickel (total)						
13.	selenium (total)						
14.	silver (total)						
15.	thallium (total)						
16.	zinc (total)						
17.	acenaphthene						
18.	acenaphthylene						
19.	acrolein						
20.	acrylonitrile						
21.	aldrin						
22.	anthracene						
23.	benzene						
24.	benzidine						
25.	benzo(a)anthracene						
26.	benzo(a)pyrene						
27.	benzo(b)fluoranthene						
28.	benzo(g,h,i)perylene						
29.	benzo(k)fluoranthene						
30.	a-BHC(alpha)						
31.	b-BHC(beta)						
32.	d-BHC(delta)						
33.	G-BHC*(gamma)						
34.	bis(2-chloroethyl)ether						
35.	bis(2-chloroethoxy)methane						
36.	bis(2-chloroisopropyl)ether						
37.	bis(chloromethyl)ether						

38.	bromodichloromethane						
39.	bis(2-ethylhexyl)phthalate						
40.	bromoform						
41.	bromomethane						
42.	4-bromophenyl phenylether						
43.	butylbenzyl phthalate						
44.	carbon tetrachloride						
45.	chlordane						
46.	4-chloro-3-ethylphenol						
47.	chlorobenzene						
48.	chloroethane						
49.	2-chloroethylvinyl ether						
50.	chloroform						
51.	chloromethane						
52.	2-chloronaphthalene						
53.	2-chlorophenol						
54.	4-chlorophenylphenyl ether						
55.	chrysene						
56.	4,4'-DDE						
57.	4,4'-DDD						
58.	4,4'-DDT						
59.	dibenzo(a,h)anthracene						
60.	dibromochloromethane						
61.	1,2-dichlorobenzene						
62.	1,3-dichlorobenzene						
63.	1,4-dichlorobenzene						
64.	3,3-dichlorobenzidine						
65.	dichlorodifluoromethane						
66.	1,1-dichloroethane						
67.	1,2-dichloroethane						
68.	1,1-dichloroethene						
69.	trans-1,2-dichloroethene						
70.	1,4-dichlorophenol						
71.	1,2-dichloropropane						
72.	(cis&trans)1,3-dichloropropene						
73.	dieldrin						
74.	diethyl phthalate						
75.	2,4-dimethylphenol						
76.	dimethyl phthalate						
77.	di-n-butyl phthalate						
78.	di-n-octyl phthalate						
79.	4,6-dinitro-2-methylphenol						
80.	1,4-dinitrophenol						
81.	1,4-dinitrotoluene						
82.	2,6-dinitrotoluene						
83.	1,2-diphenylhydrazine						
84.	endosulfan t						
85.	endosulfan tt						
86.	endosulfan sulfate						

87.	endrin						
88.	endrin aldehyde						
89.	ethylbenzene						
90.	fluoranthene						
91.	fluorene						
92.	heptachlor						
93.	heptachlor epoxide						
94.	hexachlorobenzene						
95.	hexachlorobutadiene						
96.	hexachlorocyclobutadiene						
97.	hexachloroethane						
98.	indeno (1,2,3-cd)pyrene						
99.	isophorone						
100.	methylene chloride						
101.	naphthalene						
102.	nitrobenzene						
103.	2-nitrophenol						
104.	4-nitrophenol						
105.	n-nitroso-dimethylamine						
106.	n-nitroso-dipropylamine						
107.	n-nitroso-diphenylamine						
108.	PCB-1016						
109.	PCB-1221						
110.	PCB-1232						
111.	PCB-1242						
112.	PCB-1248						
113.	PCB-1254						
114.	PCB-1260						
115.	pentachlorophenol						
116.	phenyl anthracene						
117.	phenol						
118.	pyrene						
119.	2,3,7,8-tetrachlorodibenzo-p-dioxin						
120.	1,1,2,2-tetrachloroethane						
121.	tetrachloroethene						
122.	toluene						
123.	toxaphene						
124.	1,2,4-trichlorobenzene						
125.	1,1,1-trichloroethane						
126.	1,1,2-trichloroethane						
127.	trichloroethene						
128.	trichlorofluoromethane						
129.	2,4,6-trichlorophenol						
130.	vinyl chloride						

ATTACHMENT B PROCESS FLOW DIAGRAM

For each major activity in which wastewater is generated, draw a diagram of the flow of materials and water from start to completed activity, showing all unit processes generating wastewater. Number each unit process having wastewater discharges to the community sewer. Use these numbers when showing this unit process in the building layout in schematic. Use the space below or additional sheets of 8x11 paper. An example is provided on the other side of this sheet. Using this example as a guide, diagram the flow of materials and water from the start of each process to the completed product or activity. Show all unit processes generating wastewater. Indicate the process flow rates in gallons per day (gpd) with numbered steps keyed to building locations.

Instructions

PROCESS FLOW DIAGRAM

A Separate drawing should be completed for each major business activity.

A line drawing (schematic flow diagram) of each major business activity is to be completed either in the space below or drawn on separate sheet of paper (all sheets should be letter size). Number each process that generates wastewater using the same numbering system as in the building layout or plant site plan shown in the building layout schematic. An example of drawing required is shown below in Figure 1.

To determine your average daily volume and maximum daily volume of wastewater flow, you may have to read water meters, sewer meters, or make estimates of volumes that are not directly measurable.

INFORMATION ON FILE
CASH.

ATTACHMENT C BUILDING LAYOUT

Draw the location of each building on the premises. Show location of all current or planned water meters, storm drains, numbered unit processes (from process schematic(s)), community sewers and each side sewer connected to the community sewers, automatic sampling equipment (current or planned), location of pretreatment processes, treated flows and untreated flows, name and location of pertinent streets. Use flow schematic to indicate process and process discharge in gpd. Number each side sewer and show possible sampling locations (sampling manhole).

An attached blueprint or drawing of the facilities showing the above items may be substituted for a drawing on this sheet. Use the example on the back side of this sheet as a guide.

INFORMATION ON FILE
C/244.

THE BACK OF THIS DOCUMENT CONTAINS AN ARTIFICIAL WATERMARK - HOLD AT AN ANGLE TO VIEW

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Fax: (503) 285-2831
Web Page: www.koppers.com

TO: J. Dietz, T. Self, M. Gilly, B. Meisinger

DATE: 8/28/00

FROM: Amos

TOTAL # OF PAGES: 10

The Attached is Self-explanatory

I have told Bob Wyatt, NWN that we want to
have this resolved by 10/1/00

IF THIS TRANSMITTAL IS IN ERROR, PLEASE CALL 503-286-3681 FAX # 503-285-2831

HAHN AND ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

August 24, 2000

Mr. Eric Blischke
Oregon Department of Environmental Quality
Voluntary Cleanup and Site Assessment Section
2020 SW 4th Avenue
Portland, Oregon 97201

HAI Project No. 2708

SUBJECT: Groundwater Quality Data, Above-Ground Storage Tank Support Piling Monitoring, Koppers Industries, Inc. Lease Area, NW Natural-Gasco Facility, 7900 NW St. Helens Road, Portland, Oregon

Dear Mr. Blischke:

On behalf of NW Natural, enclosed please find a summary of groundwater quality data (Tables 1 and 2) as obtained from wells at the Gasco site that monitor groundwater conditions down-gradient from the new above-ground coal tar pitch tank that was constructed by Koppers Industries, Inc. (KII) in 1999 (Figure 1).

As you are aware, monitoring wells MW-14-110, MW-15-50, and MW-15-66; all down-gradient of the tank foundation pilings within the Alluvial Sand water-bearing zone (WBZ); are being monitored on a quarterly sampling frequency as per a December 14, 1999 assessment plan¹ that has been implemented such that an evaluation of environmental impacts associated with piling construction for the new coal tar pitch tank may be conducted. Pilings were driven in May 1999, while wells MW-15-50 and MW-15-66 were installed in July 1999, and well MW-14-110 was installed in October 1998.

The primary objective of the monitoring activities has been the acquisition of sufficient data such that the likely source of polynuclear aromatic hydrocarbon (PAH) and aromatic hydrocarbon (particularly benzene) contamination identified at the MW-15-50 well location could be ascertained. Specifically, monitoring activities were designed such that a determination as to whether the impacts identified at MW-15-50: (1) pre-date the installation of tank foundation pilings; (2) are the result of limited piling drag-down of shallow contamination into the Alluvial Sand WBZ; or (3) are the result of the pilings acting as an on-going conduit for the continued migration of shallow contamination into the Alluvial Sand WBZ. The preceding determination is necessary in order to evaluate whether tank installation procedures have exacerbated existing contamination at the site, since KII desires to commence construction of a second tank in this area during 2001.

As provided within the Assessment Plan (HAI 1999), monitoring activities were completed over the course of one year to allow for the identification and evaluation of concentration trends at the wells such that the type/mechanism of the contaminant source currently identified at the MW-15-50 location could be ascertained. With completion of the June 2000 sampling event, one year of groundwater quality data are now available, and an interpretation of trends in contaminant concentrations are provided herein.

¹ Hahn and Associates, Inc. (1999), *Proposed Assessment Plan, Above-Ground Storage Tank Support Pilings, Koppers Lease Area, Northwest Natural Lease Area, Northwest Natural-Gasco Facility, 7900 NW St. Helens Road, Portland, Oregon* (Ede to Blischke), December 14, 1999.

434 NW 6th AVENUE, SUITE 203 • PORTLAND, OREGON 97209-3651
503/796-0717 OFFICE • 503/227-2209 FAX

www.hahnasoc.com

Figures 2 and 3 provide charts depicting benzene and total PAH concentrations through time at the MW-15-50 well location. As depicted on Figure 2, and as summarized on Table 1, benzene concentrations at the MW-15-50 well location have decreased from a high of 95,100 parts per billion (ppb) in July 1999 to a low of 1,270 ppb in June 2000, while total PAH concentrations have declined from a high of 18,460 ppb to a low of 451 ppb over the same time-frame.

With regard to well MW-15-66, screened just beneath well MW-15-50 at the base of the Alluvial Sand WBZ, samples from this well have consistently indicated a lack of detectable benzene concentrations, while total PAH concentrations have remained low (Tables 1 and 2).

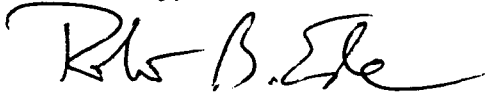
Furthermore, since installation of the tank support pilings in May 1999, no increasing concentrations of PAHs or benzene have been identified at the well MW-14-110 location, screened at the base of the Alluvial Sand WBZ approximately 250 feet down-gradient of the tank support pilings (Tables 1 and 2, Figures 4 and 5).

Under a scenario involving an ongoing source of contamination to the Alluvial Sand WBZ, one would expect stable or increasing concentration trends at the MW-15-50 location, with a strong increasing trend in contaminant concentrations at well MW-15-66. Since trends observed to date indicate a decline in concentrations through time at the MW-15-50 location, and non-detect to low concentrations at MW-15-66, it does not appear that piling installation has resulted in creation of an artificial conduit leading to exacerbation of overall site contamination. Instead, contamination identified within the Alluvial Sand WBZ at the MW-15-50 well location is likely the result of "one-time" contaminant drag-down during the piling installation. The slug of contamination resulting from the piling construction would not be expected to significantly contribute to the existing site contamination since this slug would attenuate and be masked by an existing plume of greater concentration within the Alluvial Sand WBZ at down-gradient portions of the site.

Based on the findings described herein, it is requested that DEQ remove the moratorium on further tank construction activities at the site.

If there are any comments or questions, please contact the undersigned.

Sincerely,



Robert Ede
Sr. Project Manager

c: Ms. Sandra Hart, NW Natural
Mr. Bob Wyatt, NW Natural
Mr. Amos Kamerer, Koppers Industries, Inc.
Mr. Richard Bach, Stoel Rives, LLP
Mr. Steve Cappellino, Anchor Environmental LLC

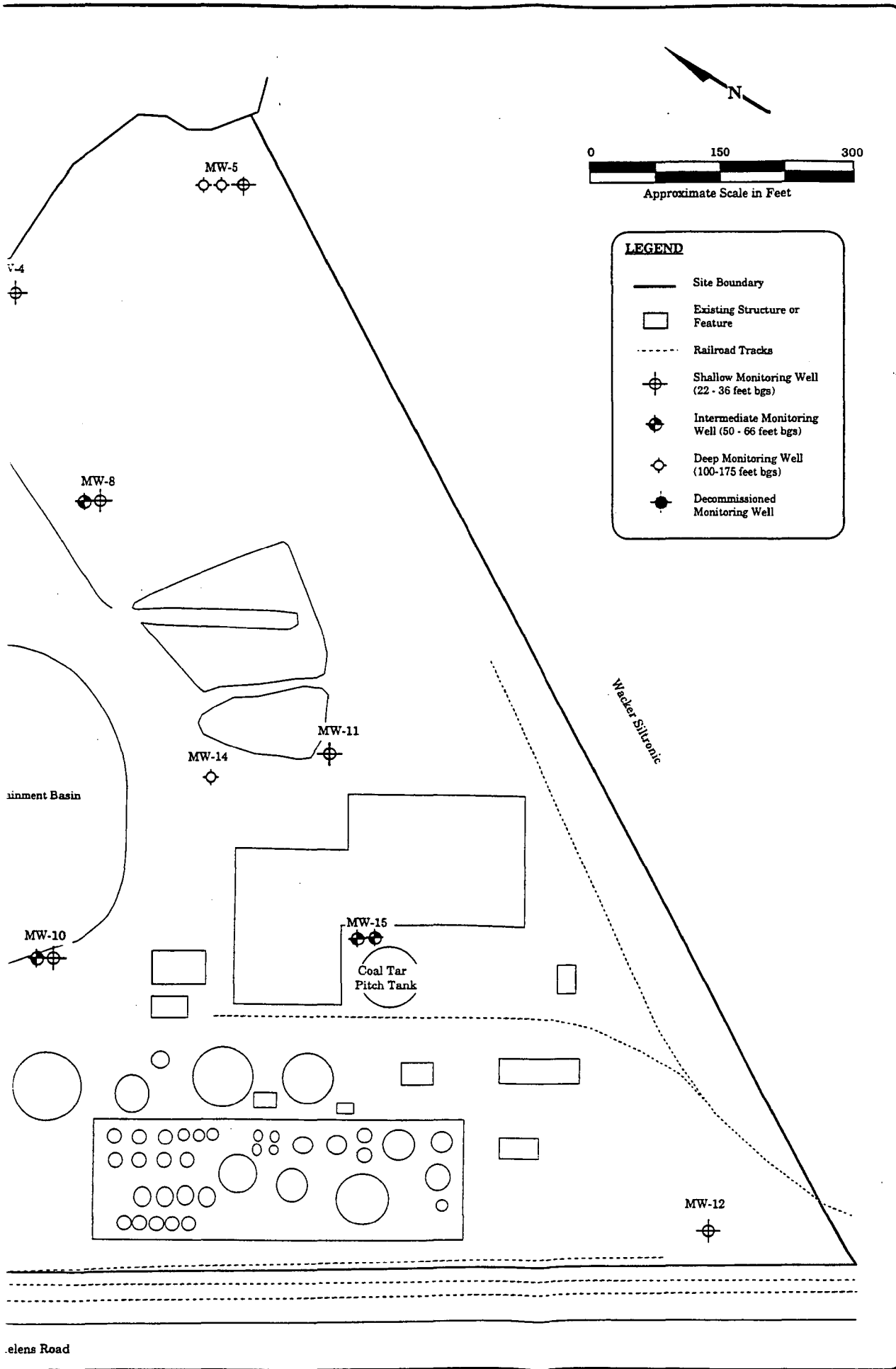


Figure 1

Monitoring Well Location Map

Remedial Investigation
Northwest Natural - Gasco Facility
7900 NW St. Helens Road
Portland, Oregon

HAHN & ASSOCIATES, INC.

ENVIRONMENTAL MANAGEMENT
434 NW SIXTH AVENUE, SUITE 203
PORTLAND, OREGON 97209
503/796-0717

January 2000

Project No. 2708

Table 1 - Summary of Historical Analytical Results for Groundwater Samples: BTEX, Total PAHs, and Cyanide (November 1998 to Present)

Remedial Investigation
Northwest Natural - Gasco Facility
Portland, Oregon

Project No. 2708

Well Number	HAI Sample Number ¹	Chain of Custody Number	Sample Date	Analytical Results									
				EPA Method 8020 ug/l (ppb)					EPA Method 8270 SIM ug/l (ppb)		EPA 9010 mg/l (ppm)	EPA 901 mg/l (ppm)	
				Benzene	Toluene	Ethyl benzene	Xylenes	Total BTEX	Carcinogenic PAHs	Total PAHs	Total Cyanide	Amenable Cyanide	
MW-14-110	981116-MW14-110-06	2708-W037	16-Nov-98	3.2	ND>0.5	ND>0.5	ND>1.5	3.2	ND	ND	0.05		
	990216-MW14-110-005	2708-W042	16-Feb-99	12.7	ND>0.5	0.6	ND>1.5	13.3	ND	0.11	0.04	ND>0.02	
	990512-MW14-110-09	2708-W045	12-May-99	22.1	ND>0.5	1.88	2.4	26.4	ND	0.28	0.03		0.03
	990823-MW14-110-06	2708-W049	23-Aug-99	45.6	0.75	1.85	2.09	50.3	ND	0.41	0.05	ND>0.02	
	991027-MW14-110-09	2708-W055	27-Oct-99	28.6	0.81	1.45	ND>1.5	30.9	ND	0.26	0.04	ND>0.02	
	991027-MW14-110-10	2708-W055	27-Oct-99	29.7	0.57	1.52	ND>1.5	31.8	ND	0.27	0.03	ND>0.02	
	000329-MW14-110-109	2708-W060	29-Mar-00	7.84	ND>0.5	0.73	ND>1.5	8.6	ND	0.42	0.03	ND>0.02	
	000329-MW14-110-110	2708-W060	29-Mar-00	8.9	0.5	0.83	ND>1.5	10.2	ND	0.42	0.03	ND>0.02	
	000615-MW14-110-102	2708-W064	15-Jun-00	4.85	ND>0.5	ND>0.5	ND>1.5	4.9	ND	0.2		ND>0.02	
MW-15-50	990728-MW15-50-04	2708-W048	28-Jul-99	95,100	863	223	2,420	98,606	ND	18,460	ND>0.020	ND>0.02	
	991029-MW15-50-25	2708-W057	29-Oct-99	8,910	134	59.2	500	9,603.2	ND	762	0.15	ND>0.02	
	000403-MW15-50-125	2708-W062	3-Apr-00	44,800	620	222	2,300	47,942	3.31	5,611	0.07	ND>0.02	
	000615-MW15-50-105	2708-W064	15-Jun-00	1,490	14.3	6.62	42	1,552.9	268	475		ND>0.02	
	000615-MW15-50-106	2708-W064	15-Jun-00	1,270	10	5.16	28.4	1,313.6	254	451		ND>0.02	
MW-15-66	990728-MW15-66-03	2708-W048	28-Jul-99	3.61	ND>0.5	ND>0.5	ND>1.5	3.6	0.83	3	ND>0.020	ND>0.02	
	990823-MW15-66-04	2708-W050	23-Aug-99	0.72	ND>0.5	ND>0.5	ND>1.5	0.7					
	991026-MW15-66-07	2708-W054	26-Oct-99	ND>0.5	ND>0.5	ND>0.5	ND>1.5	ND	ND		ND>0.020	ND>0.02	
	000329-MW15-66-108	2708-W060	29-Mar-00	ND>0.5	ND>0.5	ND>0.5	ND>1.5	ND	3.91	7	ND>0.02	ND>0.02	
	000615-MW15-50-104	2708-W064	15-Jun-00	ND>0.5	ND>0.5	ND>0.5	ND>1.5	ND	12.17	22		ND>0.02	
EPA Maximum Contaminant Levels (MCLs) for Drinking Water:				5	1,000	700	10,000	#	#	#	0.2	#	
EPA Region 9 Preliminary Remediation Goals (PRGs) for Tap Water (10/99)				0.41	720	1,300	1,400	#	#	#	#	0.7	
DEQ Ambient Water Quality Criteria (AWQC) for Surface Water ²				40 ³	424 ³	1,400 ³	#	#	0.031 ⁴	#	0.0052 ⁴	#	

Note: BTEX = benzene, toluene, ethylbenzene, and xylenes
DEQ = Oregon Department of Environmental Quality
EPA = U.S. Environmental Protection Agency

mg/l = milligrams/liter
ND = not detected above detection limit indicated
PAHs = polynuclear aromatic hydrocarbons

ppb = parts per billion
ppm = parts per million
ug/l = micrograms per liter

= Reference Level not established
Bold and shaded = Detected above Lowest Identified Reference Level

1 = Sample number prefix 2708-

2 = Reference Level indicated is the lowest guidance value provided in the Ambient Water Quality Criteria (OAR 340-41) based on Fresh Acute, Fresh Chronic (Aquatic Life Protection) and Fish Consumption (Human Health Protection)

3 = Reference Level based on Aquatic Fresh Chronic Criteria of AWQC

4 = Reference Level based on Human Fish Consumption Criteria of AWQC

Table 2 - Summary of Historical Analytical Results for Groundwater Samples: PAHs by EPA Method 8270 (November 1998 to Present)

Remedial Investigation
Northwest Natural - Gasco Facility
Portland, Oregon

Project No. 2708

PAHs by EPA Method 8270 (SIM)				Analytical Results ug/l (ppb)																		
Well Number	Sample Number	Chain of Custody Number	Sample Date	Carcinogenic PAHs							Non-carcinogenic PAHs										Total Carcinogenic PAHs	Total PAHs
				Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (e) pyrene	Chrysene	Dibenzo (ah) anthracene	Indeno (1,2,3-cd) pyrene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (ghi) perylene	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene			
MW-14-110	981118-MW14-110-06	2708-W037	16-Nov-98	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND	ND
	990216-MW14-110-005	2708-W042	16-Feb-99	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	0.11	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND	0.1
	990512-MW14-110-09	2708-W045	12-May-99	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	0.14	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND	0.3
	990823-MW14-110-06	2708-W049	23-Aug-99	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	0.29	ND *	ND *	ND *	ND *	ND *	0.14	ND *	ND *	ND	0.4
	991027-MW14-110-09	2708-W055	27-Oct-99	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	0.26	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND	0.3
	991027-MW14-110-09	2708-W055	27-Oct-99	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	0.26	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND	0.3
	000329-MW14-110-109	2708-W060	29-Mar-00	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	0.42	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND	0.4
	000329-MW14-110-110	2708-W060	29-Mar-00	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	0.42	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND	0.4
	000615-MW14-110-102	2708-W064	15-Jun-00	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	0.18	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND	0.2
MW-15-50	990728-MW15-50-04	2708-W048	28-Jul-99	ND *	ND *	ND *	ND *	ND *	ND *	ND *	50.	8,510.	ND *	ND *	ND *	ND *	83.	9,700.	117.	ND *	ND	18,460.
	991029-MW15-50-25	2708-W057	29-Oct-99	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	20.	ND *	ND *	ND *	ND *	ND *	716.	28.	ND *	ND	762.
	000403-MW15-50-125	2708-W062	3-Apr-00	0.79	0.51	0.49	0.55	0.73	ND *	0.24	22.	41.6	2.91	0.25	6.01	23.6	5,480.	25.9	5.16	3.31	5,611.	
	000615-MW15-50-105	2708-W064	15-Jun-00	43.6	45.5	36.5	57.1	40.5	8.95	33.5	2.91	0.59	4.11	41.8	69.7	1.66	1.23	25.	60.1	267.65	475.	
	000615-MW15-50-106	2708-W064	15-Jun-00	40.	44.1	36.3	53.5	38.3	8.87	32.6	2.96	0.77	4.1	40.2	65.2	1.71	1.23	23.8	57.3	253.67	451.	
MW-15-66	990728-MW15-66-03	2708-W048	28-Jul-99	0.15	0.28	ND *	0.16	0.15	ND *	0.11	0.11	ND *	ND *	0.14	0.3	ND *	0.57	0.17	0.34	0.83	2.5	
	991026-MW15-66-07	2708-W054	28-Oct-99	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND	ND	
	000329-MW15-66-108	2708-W060	29-Mar-00	0.57	0.59	0.6	0.77	0.67	0.18	0.53	ND *	ND *	0.11	0.66	0.96	ND *	ND *	0.33	0.96	3.91	6.9	
	000615-MW15-50-104	2708-W064	15-Jun-00	1.93	1.96	1.61	2.64	1.91	0.57	1.55	0.14	ND *	0.39	2.04	3.32	ND *	ND *	1.07	2.92	12.17	22.1	
EPA Maximum Contaminant Levels (MCLs) for Drinking Water				#	#	#	2	#	#	#	#	#	#	#	#	#	#	#	#	#	#	
EPA Region 9 Preliminary Remedial Goals (PRGs) for Tap Water (10/99)				0.092	0.092	0.92	0.0092	9.2	0.0092	0.092	370.	#	1,800.	#	1,500.	240.	6.2	#	180.	#	#	
DEQ Ambient Water Quality Criteria (AWQC) for Surface Water				#	#	#	#	#	#	#	520. ³	#	#	#	54. ⁴	#	620. ³	#	#	#	0.031 ⁴	#

Note: # = Reference Level not established
EPA = U.S. Environmental Protection Agency
ND = not detected above detection limit indicated
ODEQ = Oregon Department of Environmental Quality

PAHs = polynuclear aromatic hydrocarbons
ppb = parts per billion
ug/l = micrograms per liter
Bold and shaded = Detected above lowest identified Reference Level

a = detection limit is 0.1 ug/l (ppb)
b = detection limit is 1. ug/l (ppb)
c = detection limit is 2. ug/l (ppb)
d = detection limit is 10. ug/l (ppb)
e = detection limit is 20. ug/l (ppb)

1 = Sample number prefix: 2708-

2 = Reference Level indicated is the lowest guidance value provided in the Ambient Water Quality Criteria (OAR 340-41) based on Fresh Acute, Fresh Chronic (Aquatic Life Protection) and Fish Consumption Only (Human Health Protection)

3 = Reference Level based on Aquatic Fresh Chronic Criteria of AWQC

4 = Reference Level based on Human Fish Consumption Criteria of AWQC

Figure 2
Benzene Concentration through Time
Monitoring Well MW-15-50
NW Natural - Gasco Facility

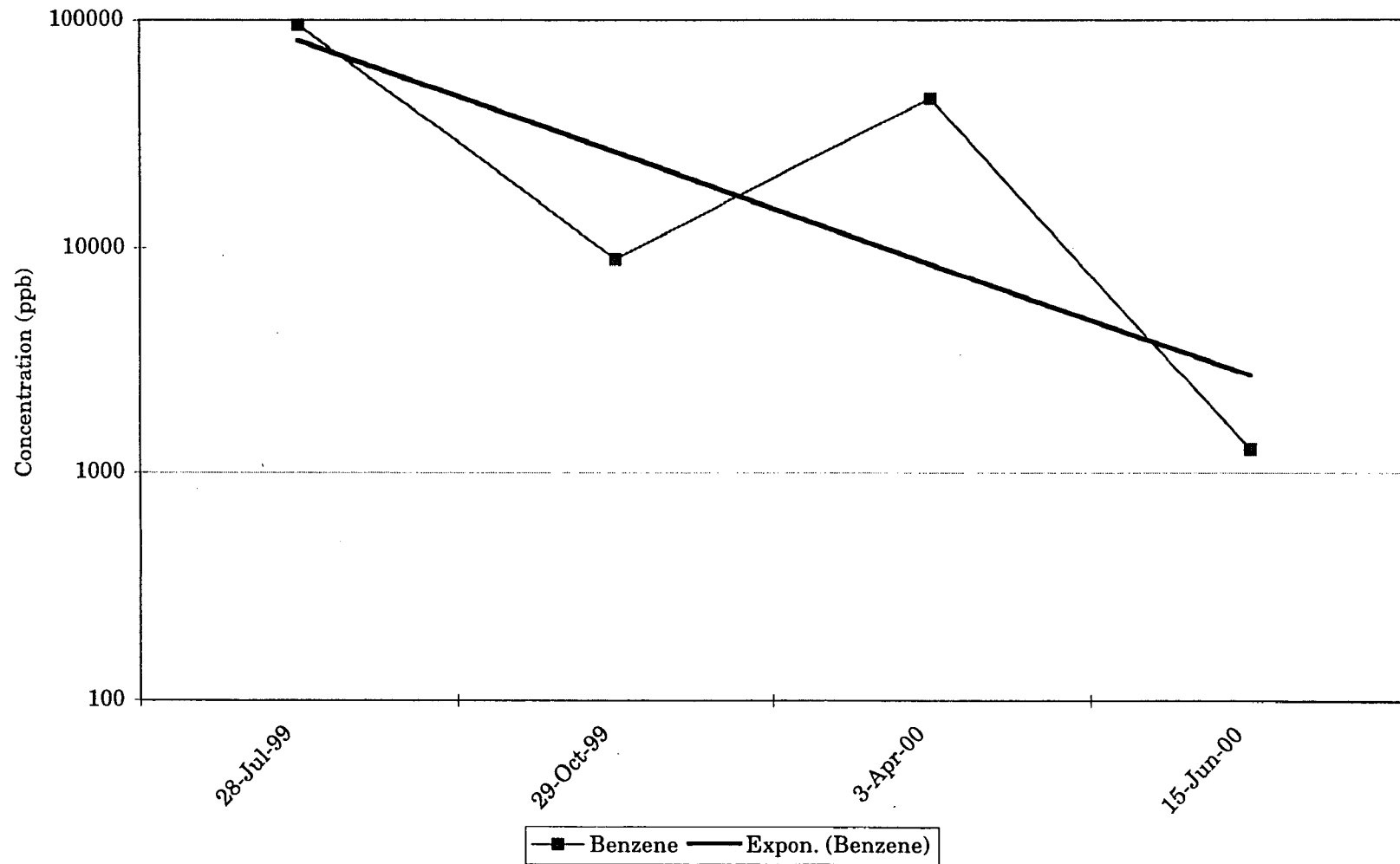


Figure 3
Total PAH Concentration through Time
Monitoring Well MW-15-50
NW Natural - Gasco Facility

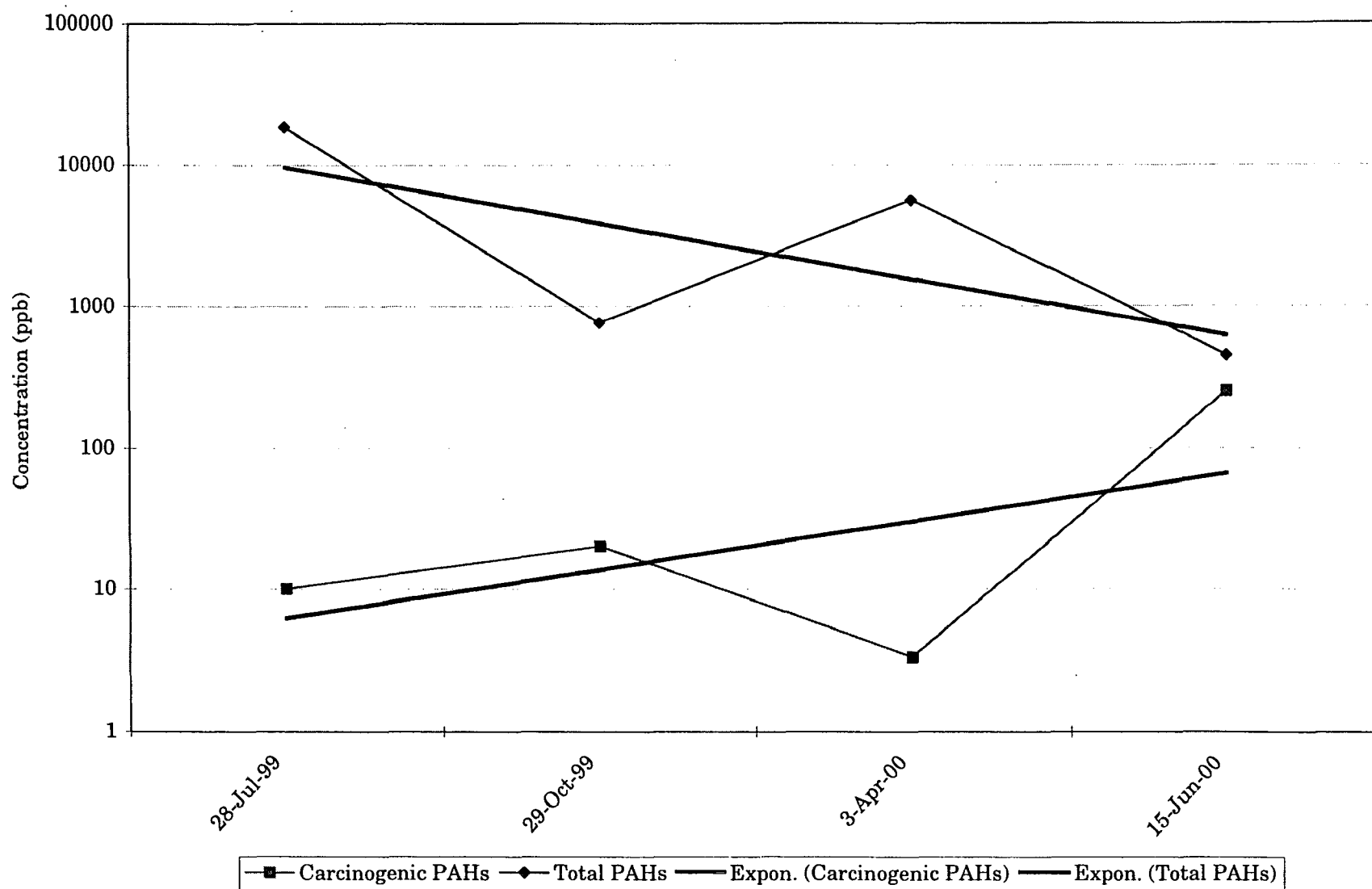
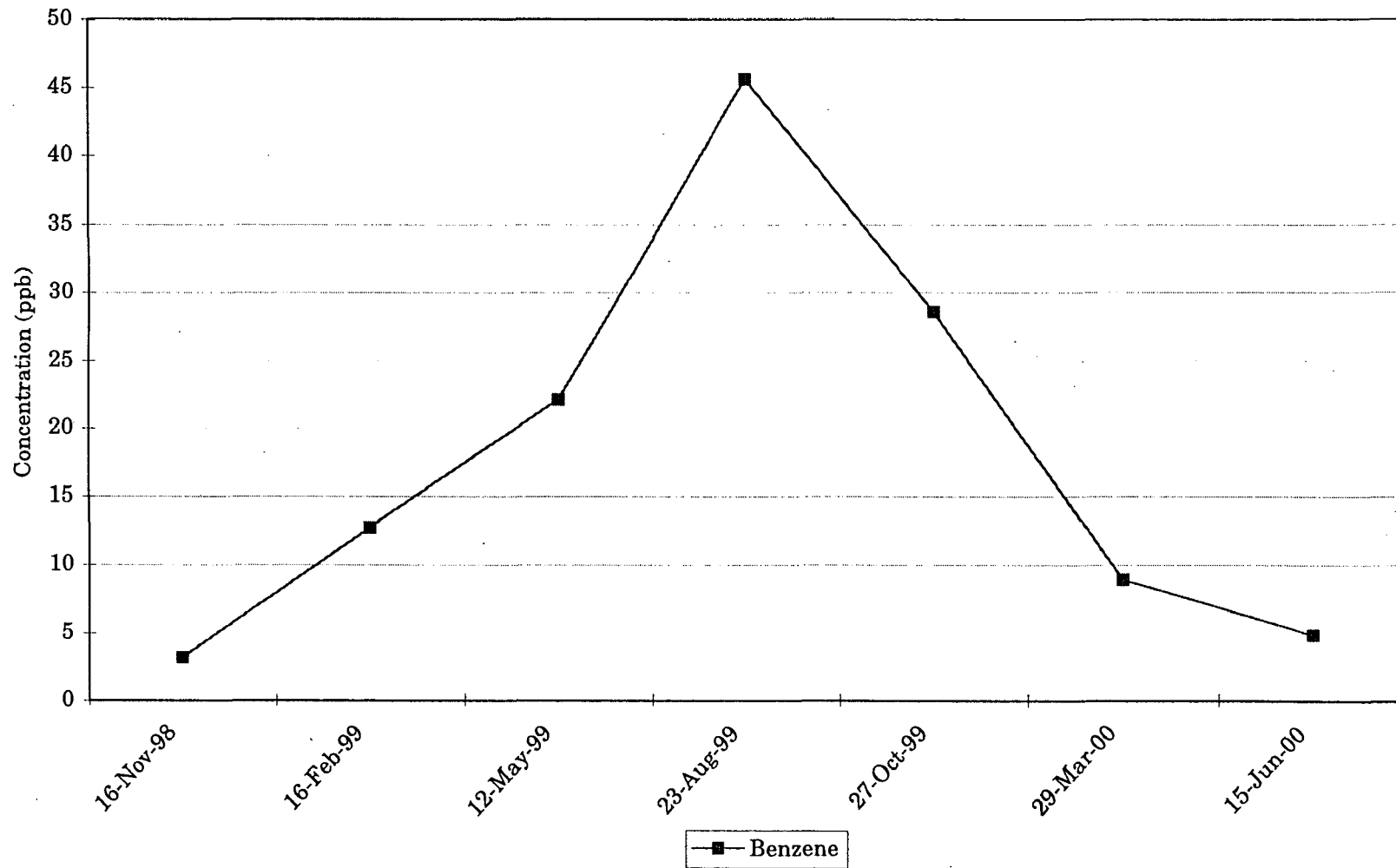


Figure 4
Benzene Concentration through Time
Monitoring Well MW-14-110
NW Natural - Gasco Facility

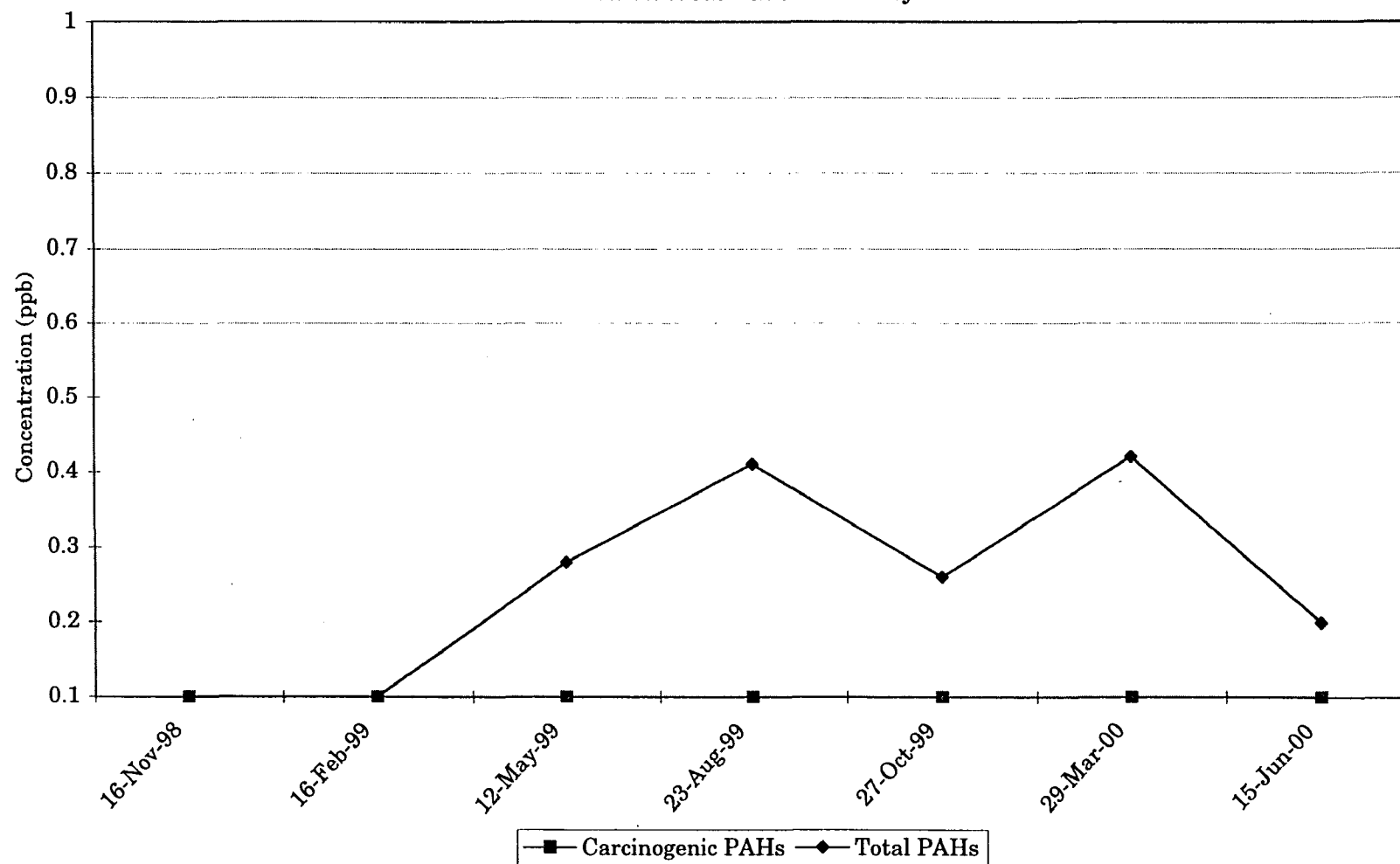


Updated: 8/17/00: RBE
File: 2708 GW conc graphs

HAHN AND ASSOCIATES, INC.
Project No. 2708

Koppers003858

Figure 5
Total PAH Concentration through Time
Monitoring Well MW-14-110
NW Natural - Gasco Facility



Updated: 8/17/00: RBE
File: 2708 GW conc graphs

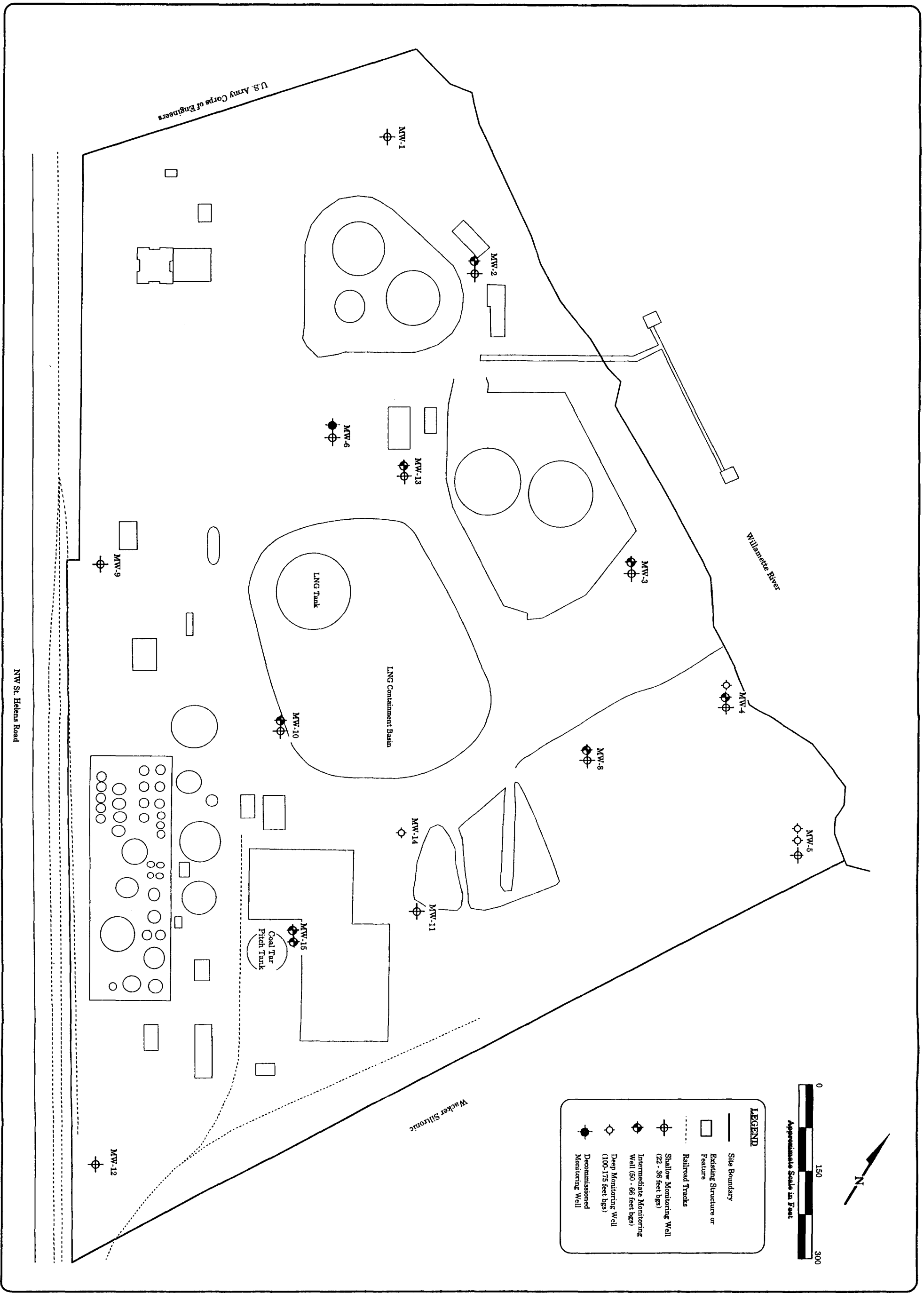
HAHN AND ASSOCIATES, INC.
Project No. 2708

Koppers003859

RECEIVED

AUG 28 2000

KOPPERS INDS, INC
PORTLAND OR



Date: 8/8/00 4:05 PM
Sender: Amos Kameroner
To: Jim Dietz
cc: Traci Self; Mark Cilley; BILL MEISINGER
Priority: Normal
Subject: ODEQ

Jim,

During Traci's and John's visit today, we ran into Bob Wyatt, NWN out back at their treatment tanks, so it afforded Traci the opportunity to meet him, after having had a couple of prior telephone conversations with him; which was good.

Bob advised that with regard to our 2nd tank issue, that he will be sending a letter in the next few days to Eric, ODEQ outlining the 1 years worth of data on the new test wells and what NWN/Hahn thoughts are on the matter. Tentatively, he will try to set up a meeting with Eric, here at the terminal, the first week of September, to review all of the data and to see what ODEQ's thought's are on the matter. Bob try to set a specific day and time with Eric, ASAP, so that Traci can plan to attend.

Bob sees this as something that we all know needs to, and will be done, we just need to have ODEQ as a part of the process. I personally think, that ODEQ will want us to add yet another test well, some where down gradient of the 2nd tank. Time will tell!

Amos

KOPPERS INDUSTRIES

FAX TRANSMITTAL

7540 N.W. Saint Helens Rd.
Portland, Oregon 97210-3663
Phone: (503) 286-3681
Fax: (503) 285-2831
Web Page: www.koppers.com

TO: J. Dietz, T. Self, M. Gilley, B. Messinger DATE: 9/7/00

FROM: Amos TOTAL # OF PAGES: 7

The attached is self explanatory —
I talked with Bob Wyatt, NWVN last week. He still had
not meet with Eric/OOEO, but he had addressed with
Eric our time table. Bob thought he would get with
Eric in the next few weeks. I will trace with
him again next week, if I do not hear from him —

IF THIS TRANSMITTAL IS IN ERROR, PLEASE CALL 503-286-3681 FAX # 503-285-2831

HAHN AND ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

July 31, 2000

Mr. Amos Kamerer
Koppers Industries, Inc.
7540 NW St. Helens Road
Portland, Oregon 97210-3663

HAI Project #2708

SUBJECT: Groundwater Quality Data, Above-Ground Storage Tank Support Piling
Monitoring, Koppers Industries, Inc. Lease Area, NW Natural-Gasco Facility, 7900 NW
St. Helens Road, Portland, Oregon

Dear Mr. Kamerer:

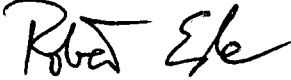
On behalf of NW Natural, enclosed please find a summary of available groundwater
quality data (Tables 1, 2, and 3) as obtained from wells at the Gasco site that monitor
groundwater conditions down-gradient from the new coal tar pitch above-ground tank that
was constructed at Koppers Industries, Inc. (Figure 1).

As you are aware, monitoring wells MW-15-50, MW-15-66, and MW-14-110 (all down-
gradient of the tank foundation pilings) are being monitored on a quarterly sampling
frequency as per a December 14, 1999 assessment plan¹ that has been implemented such
that an evaluation of environmental impacts associated with piling construction for the
new coal tar pitch tank may be completed (pilings were driven in May 1999).

As per the assessment plan, with completion of the June 2000 sampling event, water quality
trends at the referenced wells will be evaluated by HAI, with findings summarized and
provided to the Oregon Department of Environmental Quality (ODEQ) within the Second
Quarter 2000 Remedial Investigation Progress Report for the Gasco site.

If there are any comments or questions, please contact either the undersigned.

Sincerely,



Robert Ede
Sr. Project Manager

c: Mr. Bob Wyatt, NW Natural
Mr. Richard Bach, Stoel Rives, LLP
Mr. Steve Cappellino, Anchor Environmental LLC

¹ Hahn and Associates, Inc. (1999), *Proposed Assessment Plan, Above-Ground Storage Tank Support
Pilings, Koppers Lease Area, Northwest Natural Lease Area, Northwest Natural-Gasco Facility, 7900
NW St. Helens Road, Portland, Oregon* (Ede to Blischke, December 14, 1999).

Table 1b - Summary of Analytical Results for Groundwater Samples: June 2000
PAHs by EPA Method 8270

Remedial Investigation
Northwest Natural - Gasco Facility
Portland, Oregon

Project No. 2708

PAHs by EPA Method 8270 (SIM)				Analytical Results ug/l (ppb)																		
Well Number	Sample Number ¹	Chain of Custody Number	Sample Date	Carcinogenic PAHs							Non-carcinogenic PAHs										Total Carcinogenic PAHs	Total PAHs
				Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Chrysene	Dibenzo (ah) anthracene	Indeno (1,2,3-cd) pyrene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (ghi) perylene	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene			
MW-14-110	000615-MW14-110-102	2708-W064	15-Jun-00	ND ^a	ND ^a	ND ^a	ND ^a	ND ^a	ND ^a	ND ^a	0.18	ND ^a	ND ^a	ND ^a	ND ^a	ND ^a	ND ^a	ND ^a	ND ^a	ND	0.2	
MW-15-50	000615-MW15-50-105	2708-W064	15-Jun-00	43.6	45.5	38.5	57.1	40.5	8.95	33.5	2.91	0.59	4.11	41.8	69.7	1.66	1.23	25.	60.1	267.65	474.75	
Duplicate	000615-MW15-50-106	2708-W064	15-Jun-00	40.	44.1	36.3	53.5	38.3	8.87	32.6	2.96	0.77	4.1	40.2	65.2	1.71	1.23	23.8	57.3	253.67	450.94	
MW-15-66	000615-MW15-50-104	2708-W064	15-Jun-00	1.93	1.96	1.61	2.64	1.91	0.57	1.55	0.14	ND ^a	0.39	2.04	3.32	ND ^a	ND ^a	1.07	2.92	12.17	22.05	
EPA Maximum Contaminant Levels (MCLs) for Drinking Water				#	#	#	2.	#	#	#	#	#	#	#	#	#	#	#	#	#	#	
EPA Region 9 Preliminary Remedial Goals (PRGs) for Tap Water (10/99)				0.092	0.092	0.92	0.0092	9.2	0.0092	0.092	370.	#	1,800.	#	1,500.	240.	6.2	#	180.	#	#	
DEQ Ambient Water Quality Criteria (AWQC) for Surface Water ²				#	#	#	#	#	#	#	520. ³	#	#	#	54. ⁴	#	620. ³	#	#	0.031 ⁴	#	

NOTE: ND = not detected above detection limit indicated
PAHs = polynuclear aromatic hydrocarbons
ppb = parts per billion
ug/l = micrograms per liter
Bold and shaded = Detected above Reference Level
= Reference Level not established
a = detection limit is 0.1 ug/l (ppb)

1 = Sample number prefix: 2708-
2 = Reference Level indicated is the lowest guidance value provided in the Ambient Water Quality Criteria (OAR 340-41)
3 = Reference Level based on Aquatic Fresh Chronic Criteria of AWQC
4 = Reference Level based on Human Fish Consumption Criteria of AWQC

Table 1a - Summary of Analytical Results for Groundwater Samples
June 2000 Sampling Event
Remedial Investigation
Northwest Natural - Gasco Facility
Portland, Oregon

Project No. 2708

Well Number	HAI Sample Number ¹	Chain of Custody Number	Sample Date	Analytical Results														
				EPA Method 8020					EPA Method 8270 SIM		EPA 335 Series	EPA Method 901	Total (Unfiltered) Metals by EPA Method 6010					
				ug/l (ppb)					ug/l (ppb)		mg/l (ppm)	mg/l (ppm)	mg/l (ppm)					
				Benzene	Toluene	Ethyl benzene	Xylenes	Total BTEX	Carcinogenic PAHs	Total PAHs	Total Cyanide	Amenable Cyanide	Arsenic	Chromium	Copper	Lead	Nickel	Zinc
MW-14-110	000615-MW14-110-102	2708-W064	15-Jun-00	4.85	ND>0.5	ND>0.5	ND>1.5	4.9	ND	0.2	-	ND>0.02	0.0136	ND>0.005	ND>0.005	ND>0.005	ND>0.005	ND>0.005
MW-15-50	000615-MW15-50-105	2708-W064	15-Jun-00	1,490.	14.3	6.62	42.	1,552.9	268.	475.	-	ND>0.02	ND>0.005	0.006	ND>0.005	ND>0.005	0.0064	0.0359
Duplicate	000615-MW15-50-106	2708-W064	15-Jun-00	1,270.	10.	5.16	28.4	1,313.6	254.	451.	-	ND>0.02	ND>0.005	ND>0.005	ND>0.005	ND>0.005	ND>0.005	0.0388
MW-15-66	000615-MW15-50-104	2708-W064	15-Jun-00	ND>0.5	ND>0.5	ND>0.5	ND>1.5	ND	12.17	22.	-	ND>0.02	0.0054	ND>0.005	ND>0.005	ND>0.005	ND>0.005	0.0214
EPA Maximum Contaminant Levels (MCLs) for Drinking Water				5.	1,000.	700.	10,000.	#	#	#	0.2	#	0.05	0.1	1.	0.015	0.1	5.
EPA Region 9 Preliminary Remediation Goals (PRGs) for Tap Water (10/89)				0.41	720.	1,300.	1,400.	#	#	#	#	0.73	0.00005	0.11	1.4	#	0.73	11.
DEQ Ambient Water Quality Criteria (AWQC) for Surface Water ²				40. ³	424. ³	1,400. ³	#	#	0.031 ⁴	#	0.0052 ⁴	#	0.000017 ⁴	0.011 ³	0.012 ³	0.0032 ³	0.1 ⁴	0.11 ³

Note: BTEX = benzene, toluene, ethylbenzene, and xylenes
EPA = U.S. Environmental Protection Agency
mg/l = milligrams/liter

ND = not detected above detection limit indicated
PAHs = polynuclear aromatic hydrocarbons
ppb = parts per billion

ppm = parts per million
ug/l = micrograms per liter
= Reference Level not established

Bold and shaded = Detected above Reference Level

1 = Sample number prefix: 2708-
2 = Reference Level indicated is the lowest guidance value provided in the Ambient Water Quality Criteria (OAR 340-41) based on Fresh Acute, Fresh Chronic (Aquatic Life Protection) and Fish Consumption Only (Human Health Protection)
3 = Reference Level based on Aquatic Fresh Chronic Criteria of AWQC
4 = Reference Level based on Human Fish Consumption Criteria of AWQC

Table 3a - Summary of Historical Analytical Results for Groundwater Samples: BTEX, Total PAHs, Total Phenols, and Cyanide (November 1998 to Present)

Remedial Investigation

Northwest Natural - Gasco Facility

Portland, Oregon

Project No. 2708

Well Number	HAI Sample Number ¹	Chain of Custody Number	Sample Date	Analytical Results									
				EPA Method 8020 ug/l (ppb)					EPA Method 8270 SIM ug/l (ppb)		EPA 9010 mg/l (ppm)	EPA 901 mg/l (ppm)	EPA 8270 ug/l (ppb)
				Benzene	Toluene	Ethyl benzene	Xylenes	Total BTEX	Carcinogenic PAHs	Total PAHs	Total Cyanide	Amenable Cyanide	Total Phenols
MW-14-110	981116-MW14-110-06	2708-W037	16-Nov-98	3.2	ND>0.5	ND>0.5	ND>1.5	3.2	ND	ND	0.05		
	990216-MW14-110-005	2708-W042	16-Feb-99	12.7	ND>0.5	0.6	ND>1.5	13.3	ND	0.11	0.04	ND>0.02	
	990512-MW14-110-09	2708-W045	12-May-99	22.1	ND>0.5	1.88	2.4	26.4	ND	0.28	0.03	0.03	
	990823-MW14-110-06	2708-W049	23-Aug-99	45.6	0.75	1.85	2.09	50.3	ND	0.41	0.05	ND>0.02	
	991027-MW14-110-09	2708-W055	27-Oct-99	28.6	0.81	1.45	ND>1.5	30.9	ND	0.26	0.04	ND>0.02	
	991027-MW14-110-10	2708-W055	27-Oct-99	29.7	0.57	1.52	ND>1.5	31.8	ND	0.27	0.03	ND>0.02	
	000329-MW14-110-109	2708-W060	29-Mar-00	7.84	ND>0.5	0.73	ND>1.5	8.6	ND	0.42	0.03	ND>0.02	
	000329-MW14-110-110	2708-W060	29-Mar-00	8.9	0.5	0.83	ND>1.5	10.2	ND	0.42	0.03	ND>0.02	
	000615-MW14-110-102	2708-W064	15-Jun-00	4.85	ND>0.5	ND>0.5	ND>1.5	4.9	ND	0.2		ND>0.02	
MW-15-50	990728-MW15-50-04	2708-W048	28-Jul-99	95,100	863	223	2,420	98,606	ND	18,460	ND>0.020	ND>0.02	
	991029-MW15-50-25	2708-W057	29-Oct-99	8,910	134	59.2	500	9,603.2	ND	762	0.15	ND>0.02	
	000403-MW15-50-125	2708-W062	3-Apr-00	44,800	620	222	2,300	47,942	3.31	5,611	0.07	ND>0.02	
	000615-MW15-50-105	2708-W064	15-Jun-00	1,490	14.3	6.62	42	1,552.9	268	475		ND>0.02	
MW-15-66	000615-MW15-50-106	2708-W064	15-Jun-00	1,270	10	5.16	28.4	1,313.6	254	451		ND>0.02	
	990728-MW15-66-03	2708-W048	28-Jul-99	3.61	ND>0.5	ND>0.5	ND>1.5	3.6	0.83	3	ND>0.020	ND>0.02	
	990823-MW15-66-04	2708-W050	23-Aug-99	0.72	ND>0.5	ND>0.5	ND>1.5	0.7					
	991026-MW15-66-07	2708-W054	26-Oct-99	ND>0.5	ND>0.5	ND>0.5	ND>1.5	ND	ND	ND	ND>0.020	ND>0.02	
	000329-MW15-66-108	2708-W060	29-Mar-00	ND>0.5	ND>0.5	ND>0.5	ND>1.5	ND	3.91	7	ND>0.02	ND>0.02	
	000615-MW15-50-104	2708-W064	15-Jun-00	ND>0.5	ND>0.5	ND>0.5	ND>1.5	ND	12.17	22		ND>0.02	
EPA Maximum Contaminant Levels (MCLs) for Drinking Water				5	1,000	700	10,000	#	#	#	0.2	#	#
EPA Region 9 Preliminary Remediation Goals (PRGs) for Tap Water (10/99)				0.41	720	1,300	1,400	#	#	#	#	0.73	#
DEQ Ambient Water Quality Criteria (AWQC) for Surface Water ²				40 ³	424 ³	1,400 ³	#	#	0.031 ⁴	#	0.0052 ⁴	#	#

Note: BTEX = benzene, toluene, ethylbenzene, and xylenes
 DEQ = Oregon Department of Environmental Quality
 EPA = U.S. Environmental Protection Agency

mg/l = milligrams/liter
 ND = not detected above detection limit indicated
 PAHs = polynuclear aromatic hydrocarbons

pbb = parts per billion
 ppm = parts per million
 ug/l = micrograms per liter

= Reference Level not established
 Bold and shaded = Detected above Lowest Identified Reference Level

1 = Sample number prefix: 2708

2 = Reference Level Indicated is the lowest guidance value provided in the Ambient Water Quality Criteria (OAR 340-41) based on Fresh Acute, Fresh Chronic (Aquatic Life Protection) and Fish Consumption (Human Health Protection)

3 = Reference Level based on Aquatic Fresh Chronic Criteria of AWQC

4 = Reference Level based on Human Fish Consumption Criteria of AWQC

Table 3b - Summary of Historical Analytical Results for Groundwater Samples: PAHs by EPA Method 8270 (November 1998 to Present)

Remedial Investigation
Northwest Natural - Gasco Facility
Portland, Oregon

Project No. 2708

PAHs by EPA Method 8270 (SIM)				Analytical Results ug/l (ppb)																		
Well Number	Sample Number	Chain of Custody Number	Sample Date	Carcinogenic PAHs							Non-carcinogenic PAHs										Total Carcinogenic PAHs	Total PAHs
				Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (e) pyrene	Chrysene	Dibenzo (ah) anthracene	Indeno (1,2,3-cd) pyrene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (ghi) perylene	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene			
MW-14-110	981116-MW14-110-06	2708-W037	16-Nov-98	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND	ND
	990216-MW14-110-005	2708-W042	16-Feb-99	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	0.11	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND	0.1
	990512-MW14-110-09	2708-W045	12-May-99	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	0.14	ND *	ND *	ND *	ND *	ND *	0.14	ND *	ND *	ND	0.3
	990823-MW14-110-06	2708-W049	23-Aug-99	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	0.29	ND *	ND *	ND *	ND *	ND *	0.12	ND *	ND *	ND	0.4
	991027-MW14-110-09	2708-W055	27-Oct-99	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	0.28	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND	0.3
	991027-MW14-110-09	2708-W055	27-Oct-99	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	0.28	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND	0.3
	000329-MW14-110-109	2708-W060	29-Mar-00	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	0.42	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND	0.4
	000329-MW14-110-110	2708-W060	29-Mar-00	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	0.42	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND	0.4
	000615-MW14-110-102	2708-W064	15-Jun-00	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	0.18	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND	0.2
MW-15-50	990728-MW15-50-04	2708-W048	28-Jul-99	ND *	ND *	ND *	ND *	ND *	ND *	ND *	50.	8,510.	ND *	ND *	ND *	83.	9,700.	117.	ND *	ND *	ND	18,460.
	991029-MW15-50-25	2708-W057	29-Oct-99	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	20.	ND *	ND *	ND *	ND *	716.	26.	ND *	ND *	ND	782.
	000403-MW15-50-125	2708-W062	3-Apr-00	0.79	0.51	0.49	0.55	0.73	ND *	0.24	22.	41.8	2.91	0.25	6.01	23.8	5,480.	25.9	5.16	3.31	5,811.	
	000615-MW15-50-105	2708-W064	15-Jun-00	43.8	45.5	38.5	57.1	40.5	8.95	33.5	2.91	0.59	4.11	41.8	69.7	1.68	1.23	25.	60.1	267.65	475.	
	000615-MW15-50-106	2708-W064	15-Jun-00	40.	44.1	36.3	53.5	38.3	8.87	32.6	2.96	0.77	4.1	40.2	65.2	1.71	1.23	23.8	57.3	253.67	451.	
MW-15-68	990728-MW15-68-03	2708-W048	28-Jul-99	0.15	0.26	ND *	0.18	0.15	ND *	0.11	0.11	ND *	ND *	0.14	0.3	ND *	0.57	0.17	0.34	0.83	2.5	
	991028-MW15-68-07	2708-W054	26-Oct-99	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND *	ND	ND	
	000329-MW15-68-108	2708-W060	29-Mar-00	0.57	0.59	0.6	0.77	0.67	0.18	0.53	ND *	ND *	0.11	0.66	0.96	ND *	ND *	0.33	0.96	3.91	6.9	
	000615-MW15-50-104	2708-W064	15-Jun-00	1.93	1.96	1.61	2.64	1.91	0.57	1.55	0.14	ND *	0.39	2.04	3.32	ND *	ND *	1.07	2.92	12.17	22.1	
EPA Maximum Contaminant Levels (MCLs) for Drinking Water				#	#	#	2	#	#	#	#	#	#	#	#	#	#	#	#	#	#	
EPA Region 9 Preliminary Remedial Goals (PRGs) for Tap Water (10/99)				0.092	0.092	0.92	0.0092	9.2	0.0092	0.092	370.	#	1,800.	#	1,500.	240.	6.2	#	180.	#	#	
DEQ Ambient Water Quality Criteria (AWQC) for Surface Water ²				#	#	#	#	#	#	#	520. ³	#	#	#	54. ⁴	#	620. ³	#	#	#	0.031 ⁴	

Note: # = Reference Level not established
EPA = U.S. Environmental Protection Agency
ND = not detected above detection limit indicated
ODEQ = Oregon Department of Environmental Quality

PAHs = polynuclear aromatic hydrocarbons
ppb = parts per billion
ug/l = micrograms per liter
Bold and shaded = Detected above lowest identified Reference Level

a = detection limit is 0.1 ug/l (ppb)
b = detection limit is 1. ug/l (ppb)
c = detection limit is 2. ug/l (ppb)
d = detection limit is 10. ug/l (ppb)
e = detection limit is 20. ug/l (ppb)

- 1 = Sample number prefix 2708-
2 = Reference Level indicated is the lowest guidance value provided in the Ambient Water Quality Criteria (OAR 340-41) based on Fresh Acute, Fresh Chronic (Aquatic Life Protection) and Fish Consumption Only (Human Health Protection)
3 = Reference Level based on Aquatic Fresh Chronic Criteria of AWQC
4 = Reference Level based on Human Fish Consumption Criteria of AWQC

**Table 2 - Summary of Analytical Results for Quality Assurance / Quality Control (QA/QC) Samples
June 2000 Sampling Event**

Remedial Investigation
Northwest Natural - Gasco Facility
Portland, Oregon

Project No. 2708

QA/QC Sample Type	HAI Sample Number	Chain of Custody Number	Sample Date	Comment	Analytical Results ug/l (ppb)					
					EPA Method 8020					EPA Method 8270
					Benzene	Toluene	Ethyl benzene	Xylenes	Naphthalene	Total PAHs
Trip Blank	2708-000615- MW7-101	2708W064	15-Jun-00	Deionized water in sample containers and transported with samples in cooler.	ND>0.5	ND>0.5	ND>0.5	ND>1.5	ND>2	-
Equipment Blank	2708-000615- MW7-103	2708-W064	15-Jun-00	Deionized water through decontaminated pump after sampling MW-14-110 and prior to sampling MW-15-66	ND>0.5	ND>0.5	ND>0.5	ND>1.5	ND>2	ND>0.1

Note: bgs = below ground surface
BTEX = benzene, toluene, ethylbenzene, and xylenes
EPA = U.S. Environmental Protection Agency
ND = not detected above detection limit indicated

PAHs = polynuclear aromatic hydrocarbons
ppb = parts per billion
ug/l = micrograms/liter

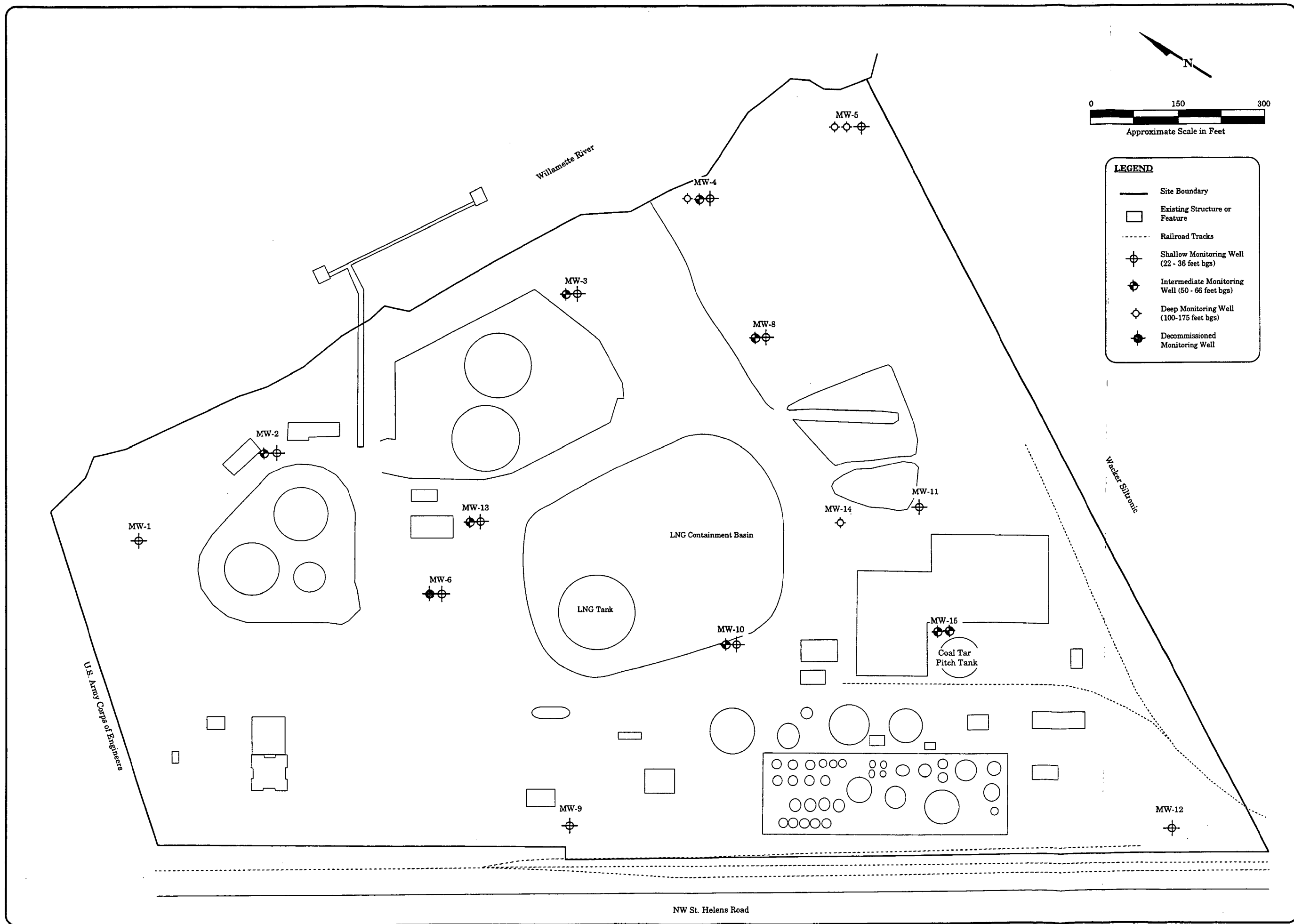


Table 1a - Summary of Analytical Results for Groundwater Samples
June 2000 Sampling Event
Remedial Investigation
Northwest Natural - Gasco Facility
Portland, Oregon

Project No. 2708

Well Number	HAI Sample Number ¹	Chain of Custody Number	Sample Date	Analytical Results														
				EPA Method 8020					EPA Method 8270 SIM		EPA 335 Series	EPA Method 901	Total (Unfiltered) Metals by EPA Method 6010					
				ug/l (ppb)					ug/l (ppb)		mg/l (ppm)	mg/l (ppm)	mg/l (ppm)					
				Benzene	Toluene	Ethyl benzene	Xylenes	Total BTEX	Carcinogenic PAHs	Total PAHs	Total Cyanide	Amenable Cyanide	Arsenic	Chromium	Copper	Lead	Nickel	Zinc
MW-14-110	000615-MW14-110-102	2708-W064	15-Jun-00	4.85	ND>0.5	ND>0.5	ND>1.5	4.9	ND	0.2	-	ND>0.02	0.0136	ND>0.005	ND>0.005	ND>0.005	ND>0.005	ND>0.005
MW-15-50	000615-MW15-50-105	2708-W064	15-Jun-00	1,490.	14.3	6.62	42.	1,552.9	268.	475.	-	ND>0.02	ND>0.005	0.006	ND>0.005	ND>0.005	0.0064	0.0359
Duplicate	000615-MW15-50-106	2708-W064	15-Jun-00	1,270.	10.	5.16	28.4	1,313.6	254.	451.	-	ND>0.02	ND>0.005	ND>0.005	ND>0.005	ND>0.005	ND>0.005	0.0388
MW-15-66	000615-MW15-50-104	2708-W064	15-Jun-00	ND>0.5	ND>0.5	ND>0.5	ND>1.5	ND	12.17	22.	-	ND>0.02	0.0054	ND>0.005	ND>0.005	ND>0.005	ND>0.005	0.0214
EPA Maximum Contaminant Levels (MCLs) for Drinking Water				5.	1,000.	700.	10,000.	#	#	#	0.2	#	0.05	0.1	1.	0.015	0.1	5.
EPA Region 9 Preliminary Remediation Goals (PRGs) for Tap Water (10/99)				0.41	720.	1,300.	1,400.	#	#	#	#	0.73	0.00005	0.11	1.4	#	0.73	11.
DEQ Ambient Water Quality Criteria (AWQC) for Surface Water. ²				40. ³	424. ³	1,400. ³	#	#	0.031 ⁴	#	0.0052 ⁴	#	0.000017 ⁴	0.011 ³	0.012 ³	0.0032 ³	0.1 ⁴	0.11 ³

Note: BTEX = benzene, toluene, ethylbenzene, and xylenes
EPA = U.S. Environmental Protection Agency
mg/l = milligrams/liter

ND = not detected above detection limit indicated
PAHs = polynuclear aromatic hydrocarbons
ppb = parts per billion

ppm = parts per million
ug/l = micrograms per liter
= Reference Level not established

Bold and shaded = Detected above Reference Level

1 = Sample number prefix: 2708-
2 = Reference Level indicated is the lowest guidance value provided in the Ambient Water Quality Criteria (OAR 340-41) based on Fresh Acute, Fresh Chronic (Aquatic Life Protection) and Fish Consumption Only (Human Health Protection)
3 = Reference Level based on Aquatic Fresh Chronic Criteria of AWQC
4 = Reference Level based on Human Fish Consumption Criteria of AWQC

Koppers003871

Table 1b - Summary of Analytical Results for Groundwater Samples: June 2000
PAHs by EPA Method 8270

Remedial Investigation
Northwest Natural - Gasco Facility
Portland, Oregon

Project No. 2708

PAHs by EPA Method 8270 (SIM)				Analytical Results ug/l (ppb)																	
Well Number	Sample Number ¹	Chain of Custody Number	Sample Date	Carcinogenic PAHs							Non-carcinogenic PAHs										
				Benzo (a) anthracene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Chrysene	Dibenzo (ah) anthracene	Indeno (1,2,3-cd) pyrene	Acenaphthene	Acenaphthylene	Anthracene	Benzo (ghi) perylene	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Total Carcinogenic PAHs	Total PAHs
MW-14-110	000615-MW14-110-102	2708-W064	15-Jun-00	ND ^a	ND ^a	ND ^a	ND ^a	ND ^a	ND ^a	ND ^a	0.18	ND ^a	ND ^a	ND ^a	ND ^a	ND ^a	ND ^a	ND ^a	ND ^a	ND	0.2
MW-15-50	000615-MW15-50-105	2708-W064	15-Jun-00	43.6	45.5	38.5	57.1	40.5	8.95	33.5	2.91	0.59	4.11	41.8	69.7	1.66	1.23	25.	60.1	267.65	474.75
Duplicate	000615-MW15-50-106	2708-W064	15-Jun-00	40.	44.1	36.3	53.5	38.3	8.87	32.6	2.96	0.77	4.1	40.2	65.2	1.71	1.23	23.8	57.3	253.67	450.94
MW-15-66	000615-MW15-50-104	2708-W064	15-Jun-00	1.93	1.96	1.61	2.64	1.91	0.57	1.55	0.14	ND ^a	0.39	2.04	3.32	ND ^a	ND ^a	1.07	2.92	12.17	22.05
EPA Maximum Contaminant Levels (MCLs) for Drinking Water				#	#	#	2.	#	#	#	#	#	#	#	#	#	#	#	#	#	#
EPA Region 9 Preliminary Remedial Goals (PRGs) for Tap Water (10/99)				0.092	0.092	0.92	0.0092	9.2	0.0092	0.092	370.	#	1,800.	#	1,500.	240.	62	#	180.	#	#
DEQ Ambient Water Quality Criteria (AWQC) for Surface Water ²				#	#	#	#	#	#	#	520. ³	#	#	#	54. ⁴	#	620. ³	#	#	0.031 ⁴	#

NOTE: ND = not detected above detection limit indicated
PAHs = polynuclear aromatic hydrocarbons
ppb = parts per billion
ug/l = micrograms per liter
Bold and shaded = Detected above Reference Level
= Reference Level not established
a = detection limit is 0.1 ug/l (ppb)

1 = Sample number prefix: 2708-
2 = Reference Level indicated is the lowest guidance value provided in the Ambient Water Quality Criteria (OAR 340-41)
3 = Reference Level based on Aquatic Fresh Chronic Criteria of AWQC
4 = Reference Level based on Human Fish Consumption Criteria of AWQC

Koppers003872

KOPPERS INDUSTRIES

FAX TRANSMITTAL

7540 N.W. Saint Helens Rd.
Portland, Oregon 97210-3663
Phone: (503) 286-3681
Fax: (503) 285-2831
Web Page: www.koppers.com

TO: J. Dietz, T. Self, B. Melisinger

DATE: 6/24/99

FROM: Amos

TOTAL # OF PAGES: 6

The Attached F. Y. I.

IF THIS TRANSMITTAL IS IN ERROR, PLEASE CALL 503-286-3681 FAX # 503-285-2831

HAHN AND ASSOCIATES, INC.
ENVIRONMENTAL MANAGEMENT

RECEIVED

JUN 23 1999

KOPPERS INDS, INC.
PORTLAND OR

June 21, 1999

Mr. Eric Blischke
Oregon Department of Environmental Quality
Voluntary Cleanup and Site Assessment Section
811 SW 6th Avenue
Portland, Oregon 97204

HAI Project No. 2708

SUBJECT: Proposed Monitoring Well Installation Activities, Koppers Lease Area,
Northwest Natural-Gasco Facility, 7900 NW St. Helens Road, Portland, Oregon

Dear Mr. Blischke:

As documented in correspondence dated May 24, 1999 (Blischke to Hart), the Oregon Department of Environmental Quality (DEQ) has expressed concerns regarding the location of groundwater monitoring wells as originally proposed for installation down-gradient of the new Koppers coal tar pitch tank supports at the Northwest Natural - Gasco facility. These wells were initially proposed for installation in a work plan submitted to the DEQ dated May 13, 1999 (Ede to Blischke), with the proposed installation of a bedrock and an alluvial unit well located approximately 100 feet down-gradient of the tank supports, immediately north of the Koppers Pencil Pitch Storage Building.

The DEQ has requested that the proposed location of the wells be revised such that they would instead be installed as close as possible to the tank foundation supports (on the down-gradient side). As discussed during a site meeting with the DEQ on June 9, 1999, it has been concluded that installation of a well within the adjacent pencil pitch storage building (to the north-northeast) would not be feasible due to drill rig mast height restrictions, and that installation immediately east would not be ideal due to the possibility of construction within that area over the next several of years. Based on the preceding, the DEQ agreed that, assuming drill rig access is possible, then installation of the wells immediately to the north of the tank foundation supports would adequately satisfy DEQ's objectives for these wells. Follow-up evaluation indicates that by removing overhead piping and by placing a granular fill foundation suitable for the drill rig, access, although limited, would be sufficient for the installation of the proposed wells at the DEQ-desired location. The proposed wells, tentatively designated as MW-15-50 and MW-15-65, based on their anticipated depths, are depicted on Figures 1 and 2. The final well designations will be modified based upon their actual depths.

Additionally, as requested by DEQ, instead of the installation of one alluvial zone well and one bedrock well as originally proposed, the scope has been revised such that two alluvial unit wells would be installed. Specifically, one well would be installed at the top of the alluvial zone (immediately below the silt unit), while the second well would be installed at the base of the alluvial zone (immediately above the bedrock surface). Both wells would be constructed and double-cased through the silt unit as per the May 13, 1999 Work Plan. As per DEQ's request, the shallow well will be constructed with a 10-foot section of screen, while the deep well will be installed with a 5-foot section of screen. Based on available data for the area (geotechnical boring G-2 and tank foundation support data), it is estimated that the shallow well will be constructed to a depth of approximately 50 feet below ground surface (bgs), while the deep well will be constructed to a depth of approximately 65 feet bgs.

434 NW SIXTH AVENUE, SUITE 203 • PORTLAND, OREGON 97209-3600
503/796-0717 OFFICE • 503/227-2209 FAX

Proposed Monitoring Well Installation
Northwest Natural - Gasco Facility
7900 NW St. Helens Road
Portland, Oregon

Page 2 of 2
Project No. 2708
June 21, 1999

All borehole drilling and well installation work will be performed with air rotary drilling methodology as indicated in the May 13, 1999 Work Plan. Continuous soil core sampling will be conducted with a hydraulic push probe sampling device through the silt unit in order to verify appropriate surface casing placement. Below the silt unit, soil samples will be collected at approximate 5-foot intervals via split spoon sampling methodology. Soil samples will be collected for lithologic descriptive purposes only unless field screening results indicate the presence of contamination at locations that do not correlate with the site conceptual model.

With the approval of DEQ, drilling will be scheduled to commence the week of June 28, 1999. Subsequent to that week, access to the proposed well locations cannot be guaranteed.

If there are any comments or questions, please contact either the undersigned.

Sincerely,



Robert Ede
Project Manager

c: Ms. Sandra Hart, Northwest Natural
✓ Mr. Amos Kamerer, Koppers Industries
Mr. Richard Bach, Stoel Rives, LLP
Mr. Frank Selker, Decision Focus, LLC

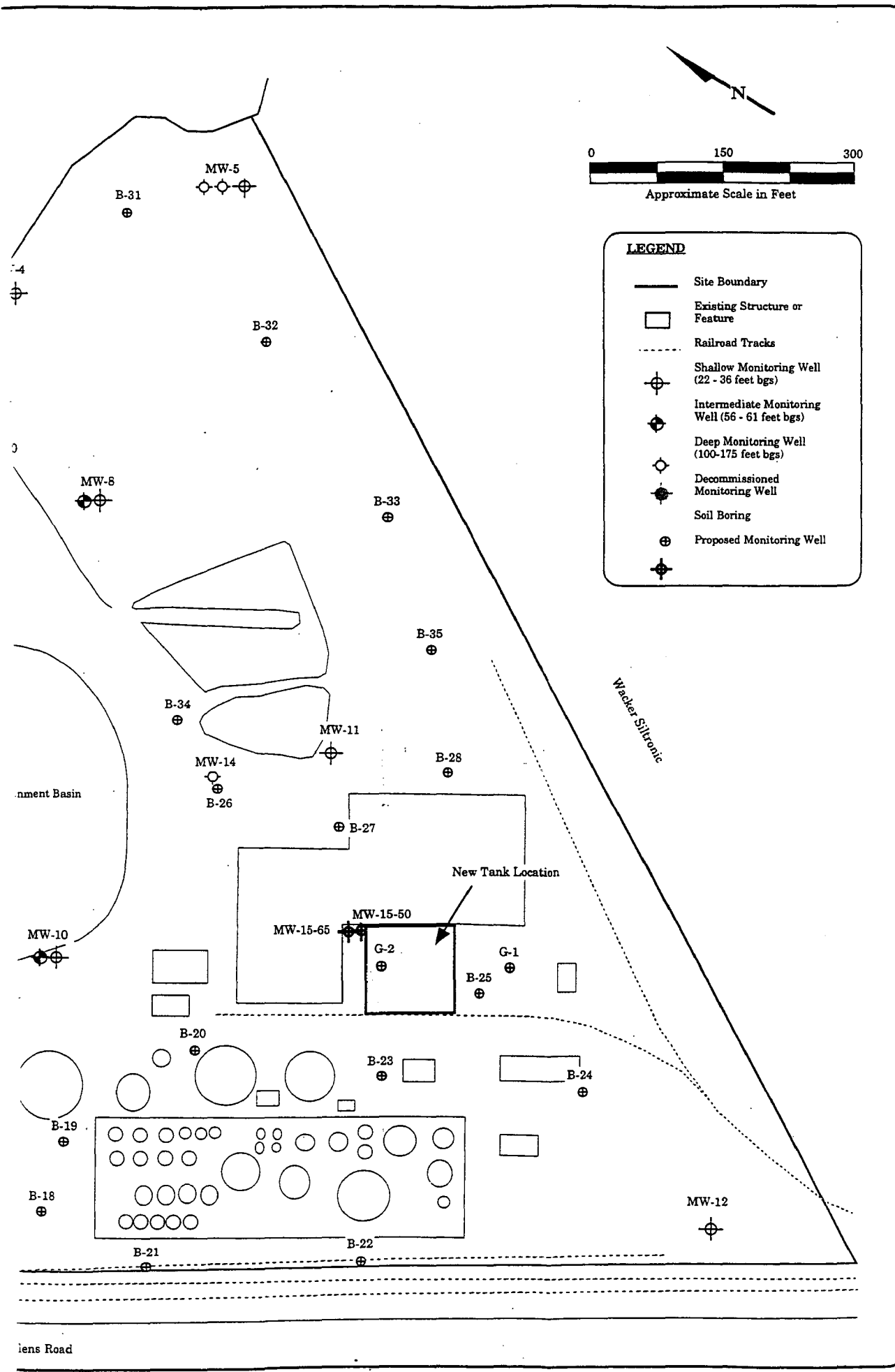


Figure 1

Proposed Kopper's Area Well Location Map

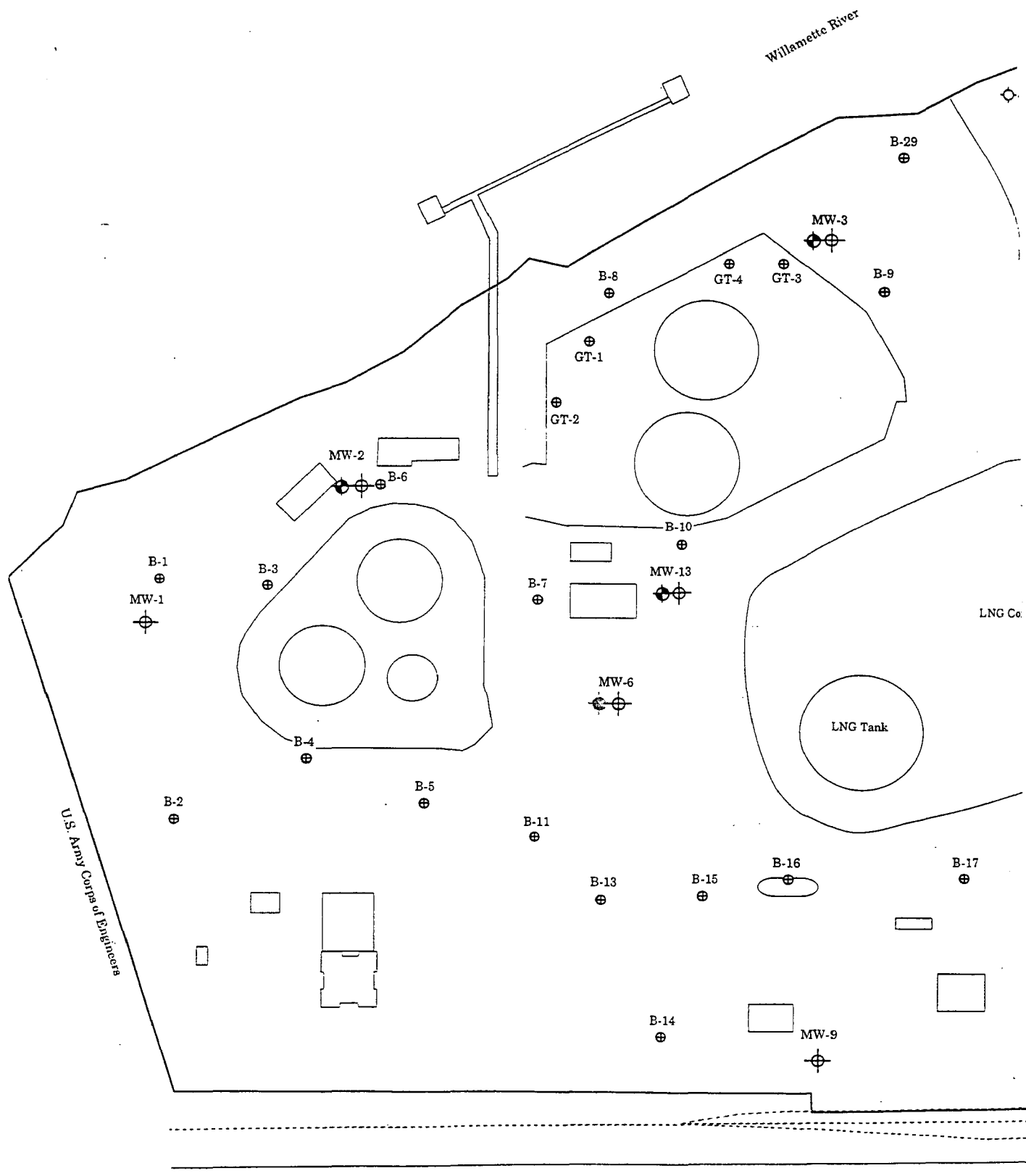
Remedial Investigation
Northwest Natural - Gasco Facility
7900 NW St. Helens Road
Portland, Oregon

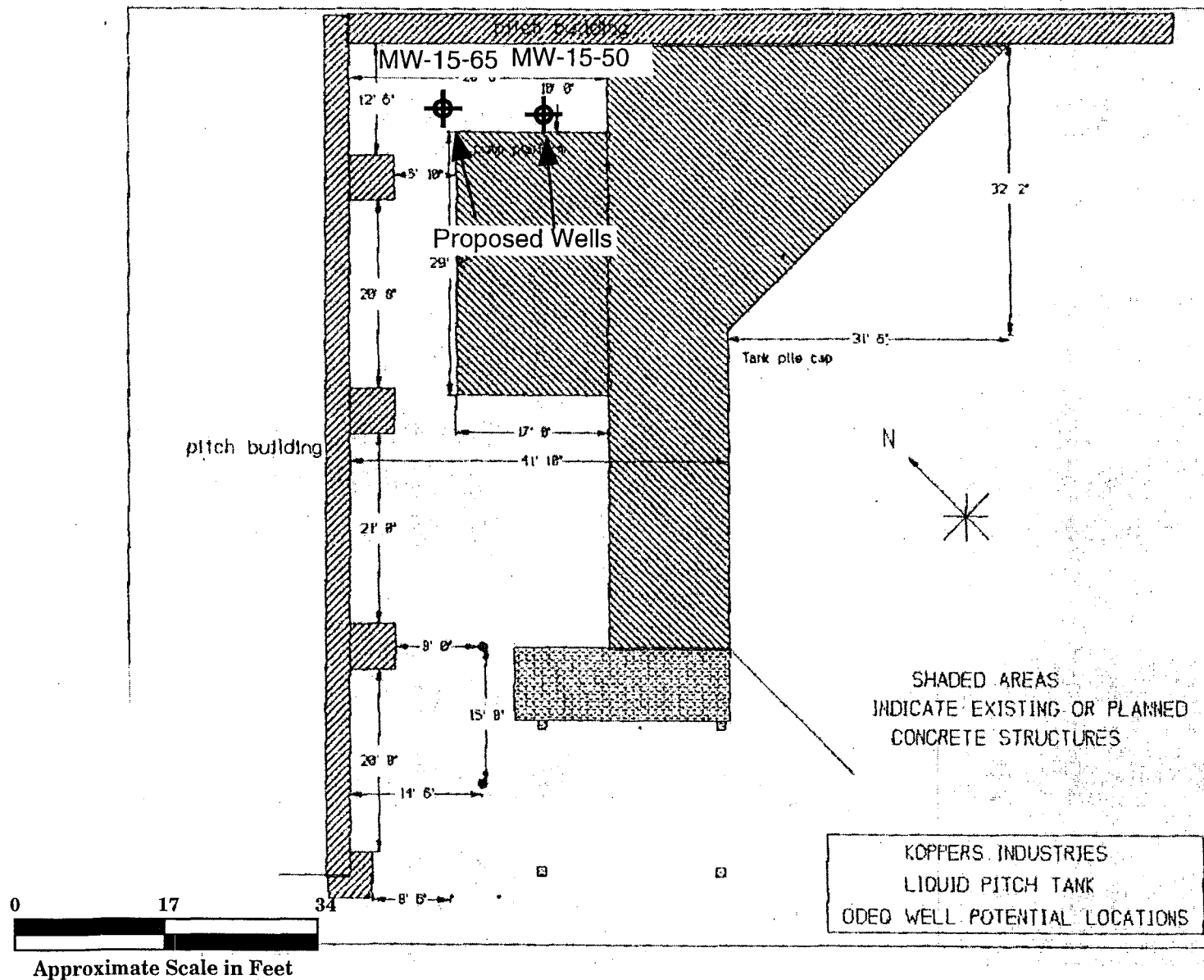
HAHN & ASSOCIATES, INC.

ENVIRONMENTAL MANAGEMENT
434 NW SIXTH AVENUE, SUITE 203
PORTLAND, OREGON 97209
503/796-0717

May 1999

Project No.
2708





Project No.
2708

June 1999

HAHN AND ASSOCIATES INCORPORATED

ENVIRONMENTAL MANAGEMENT
434 NW SIXTH AVENUE, SUITE 203
PORTLAND, OREGON 97209
(503) 796-0717

Proposed Well Locations and Surrounding Features: Koppers Pitch Tank

Remedial Investigation
Northwest Natural - Gasco Facility
7900 NW St. Helens Road
Portland, Oregon

FIGURE

2

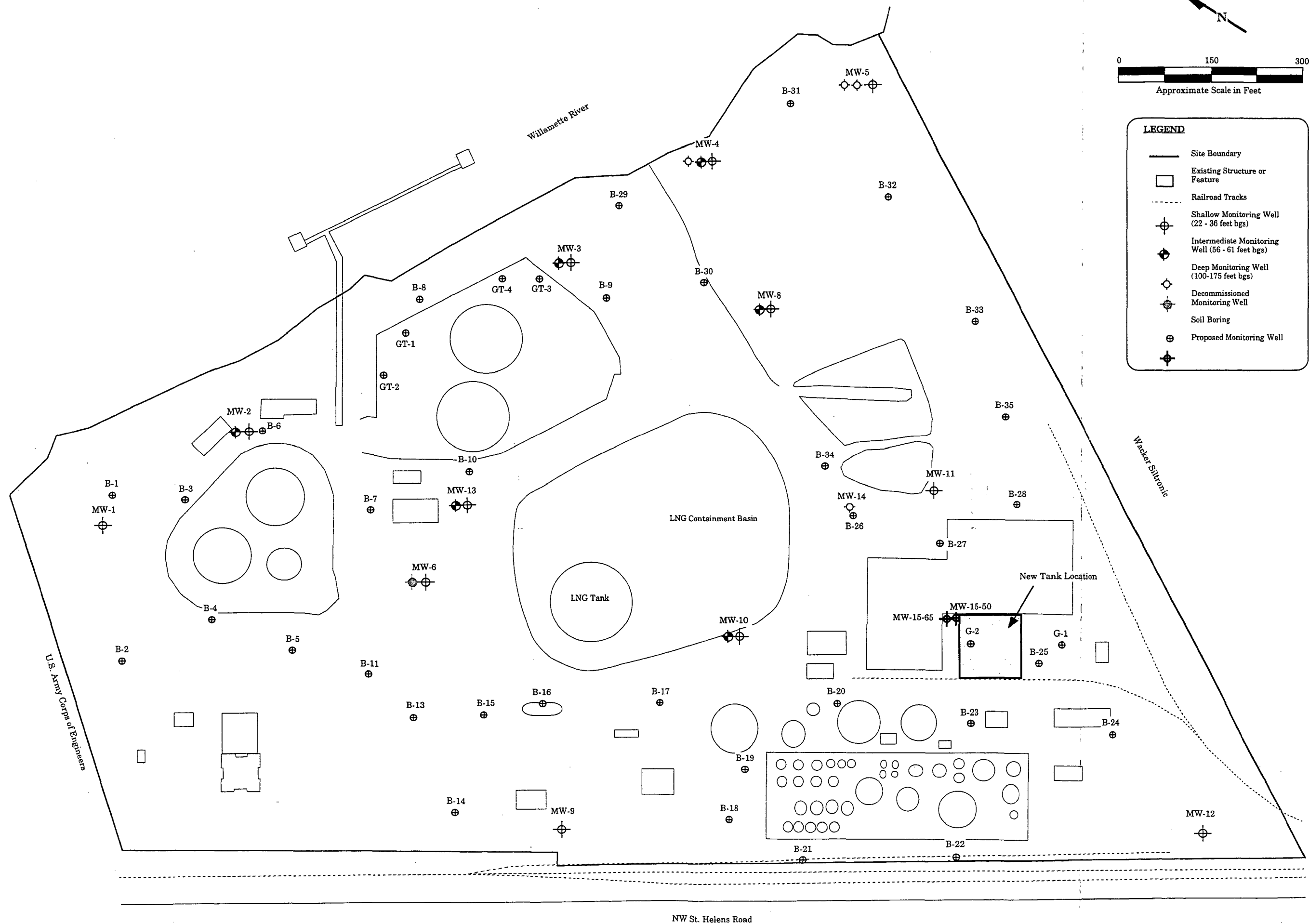


Figure
1

Proposed Kopper's Area Well Location Map

Remedial Investigation
Northwest Natural - Gasco Facility
7900 NW St. Helens Road
Portland, Oregon

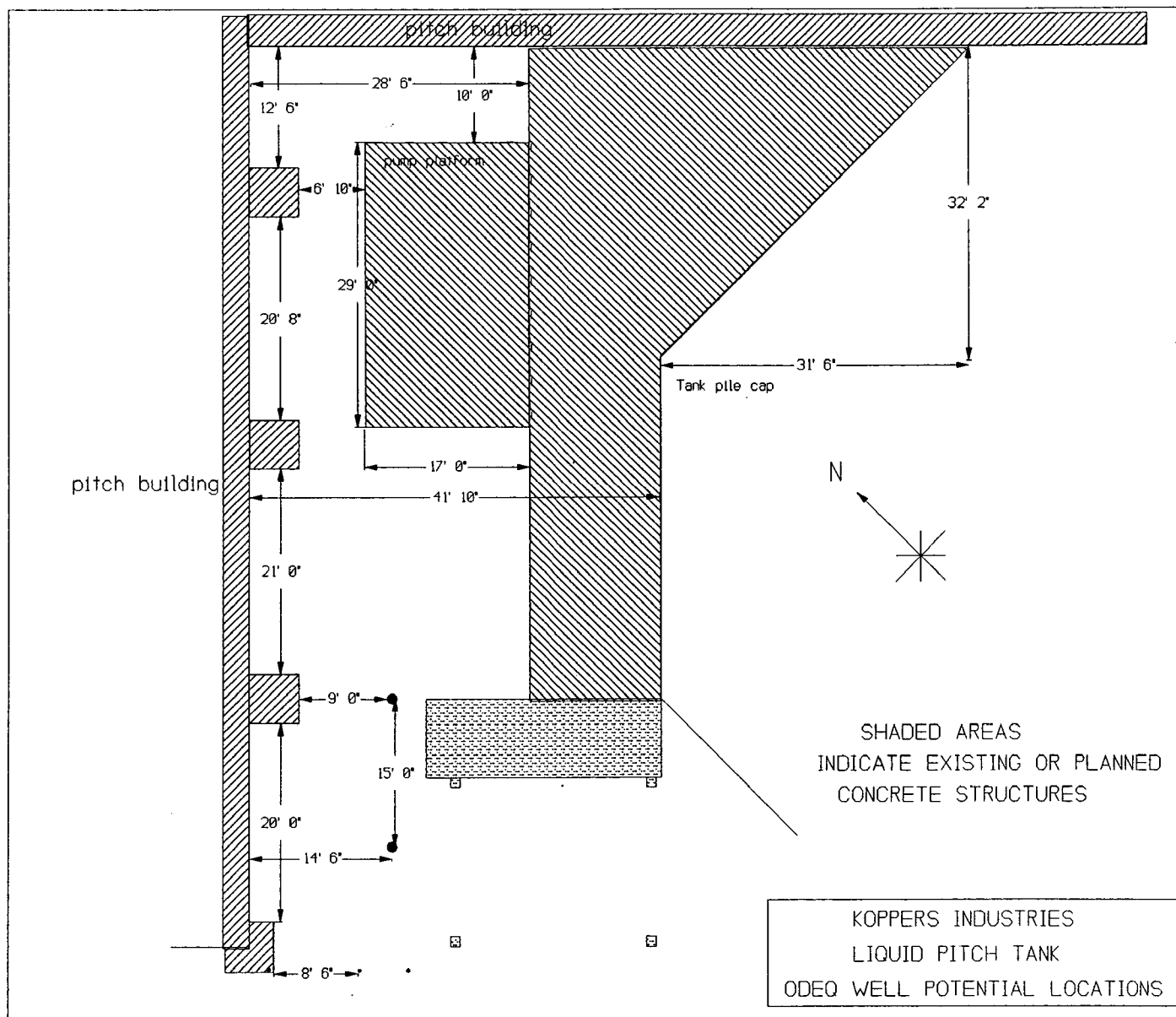
HAHN & ASSOCIATES, INC.

ENVIRONMENTAL MANAGEMENT
434 NW SIXTH AVENUE, SUITE 203
PORTLAND, OREGON 97209
503/796-0717

May 1999

Project No.
2708

Koppers003879



To Amos
Date 6.18.99 Time 2:07 ☐ AM ☐ PM

WHILE YOU WERE OUT

M ROBERT Stadel
of GEOTECH

Phone Numbers

Office 692-6400
Area Code Number Ext.
Voicemail _____
FAX _____
Pager _____
Mobile _____
e-mail _____

- ☒ Telephoned
☒ Please call
☐ Returned your call
☐ Called to see you
☐ Wants to see you
☐ Will call again
☐ URGENT

Message

Just wanted to talk about

the drill scheduled for

week of 28TH

Monday 9AM



AMPAC
EFFICIENCY®

Operator

Reorder
#23-000

**KOPPERS
INDUSTRIES**

FAX TRANSMITTAL

7540 N.W. Saint Helens Rd.
Portland, Oregon 97210-3663
Phone: (503) 286-3681
Fax: (503) 285-2831
Web Page: www.koppers.com

TO: Rob Ede, Hahn & Assoc.

DATE: 6/15/99

FROM: Amos

TOTAL # OF PAGES: 2

Here's the drawing of the North corner tank Area.
Call if any questions.

We are still looking at the w/o 6/28, or even the
possibility of the weekend prior (6/26 & 27).

Rob

5 day job to drill Available w/o 6/28/99

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**KOPPERS
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FAX TRANSMITTAL

7540 N.W. Saint Helens Rd.
Portland, Oregon 97210-3663
Phone: (503) 286-3681
Fax: (503) 285-2831
Web Page: www.koppers.com

TO: Traci Self, K-1800

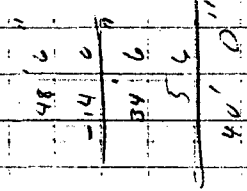
DATE: 6/15/99

FROM: Amos

TOTAL # OF PAGES: 2

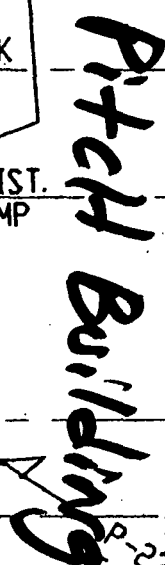
Here's the layout of the Acres that the
DEQ is looking at for the new wells.
Can I have any questions.

IF THIS TRANSMITTAL IS IN ERROR, PLEASE CALL 503-286-3681 FAX # 503-285-2831



Koppers003884

~~CONFIDENTIAL~~



Author: Traci Self at PITT
Date: 5/25/99 5:57 AM
Priority: Normal
TO: AMOS KAMERER at PITT
TO: Kevin Fitzgerald at PITT
TO: BILL MEISINGER at TECHCTR
TO: Jack Stephenson at PITT
TO: iskoppers@aol.com at internet
TO: Jim Dietz at PITT
Subject: Re[2]: ODEQ

----- Message Contents -----

I will respond to NWNG and I would like to be involved in well location selection. The locations will be very important is we need to install additional tanks. We also should be very careful about well placement in buildings or very near other locations which we have used for a while.

I have not heard from Sandy Hart and I have not received any workplan for well placement or the VCP agreement that she agreed to send(unless they were received yesterday). When I return to the office Wednesday afternoon I will contact Amos and contact NWNG, if necessary.

Reply Separator

Subject: Re:ODEQ
Author: Jim Dietz at PITT
Date: 5/21/99 8:12 AM

Amos,

We want Traci to draft a note to Sandy that indicates that Koppers wants to approve the location of the well primarily from the standpoint of the required access during operation and the proper analysis of the goals of testing and criteria for determining the use of the data gathered.

Jim

Author: AMOS KAMERER at PITT
Date: 5/20/99 4:51 PM
Priority: Normal
TO: Jim Dietz at PITT
CC: Kevin Fitzgerald at PITT
CC: BILL MEISINGER at TECHCTR
CC: Jack Stephenson at PITT
CC: Traci Self at PITT
CC: iskoppers@aol.com at internet
Subject: ODEQ

----- Message Contents -----

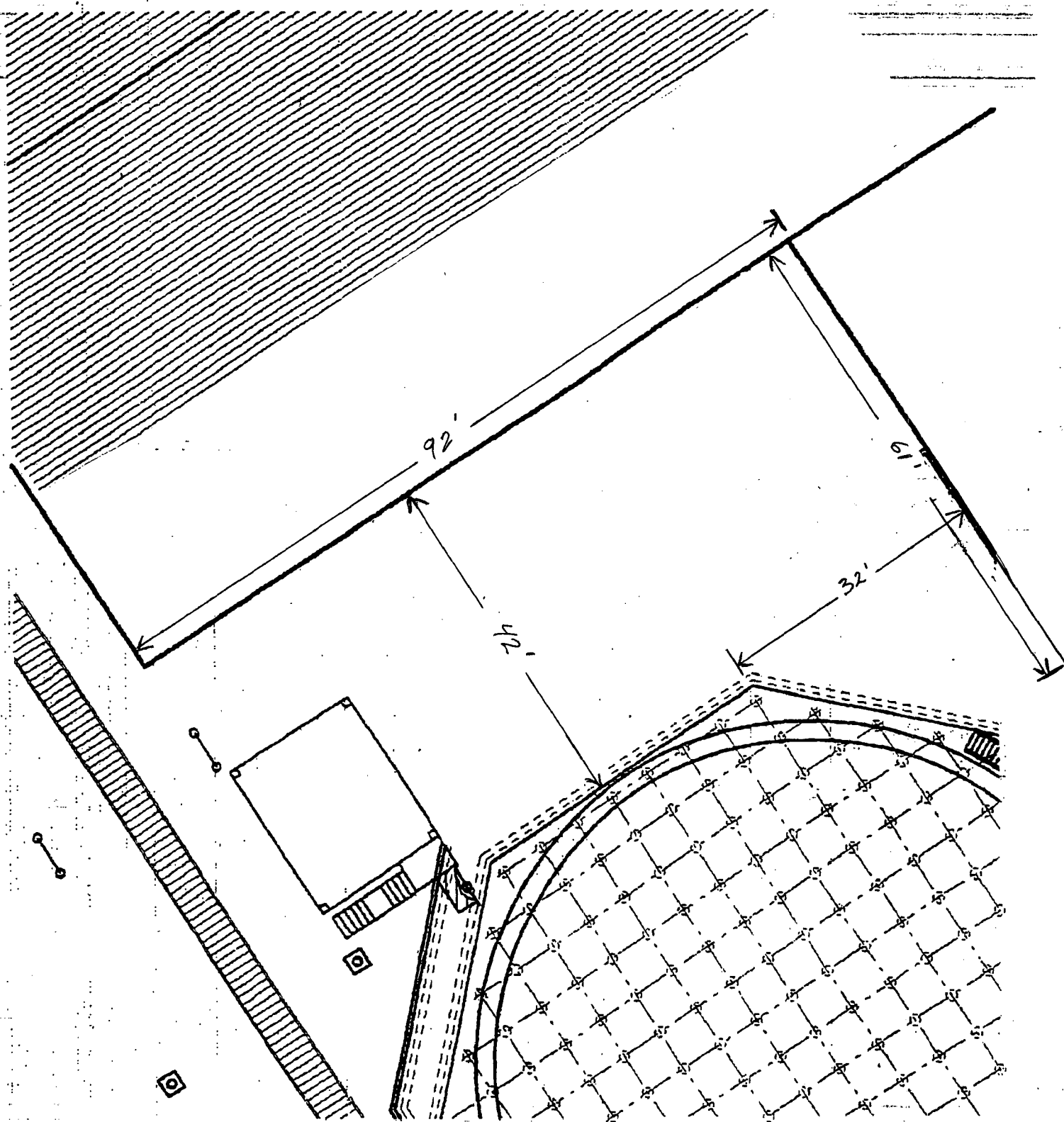
Jim,

FYI. I had a call from Rob Ede, Hahn and Assoc., NWN's Environmental consultant, who said that he had a one hour conference call today with the ODEQ, about the location of the new wells. The ODEQ hydrologist thinks that the wells should be as close to the tank as is possible, Rob thinks different. So, the well drilling has been put off for the time being, until they come to an agreement.

Rob, understands that we are in construction and that some area's are now off limit's, etc.. They also asked Rob about putting them in the pitch building; the only location that I said was available, does not accommodate the well drilling rig's needed height, so that's out.

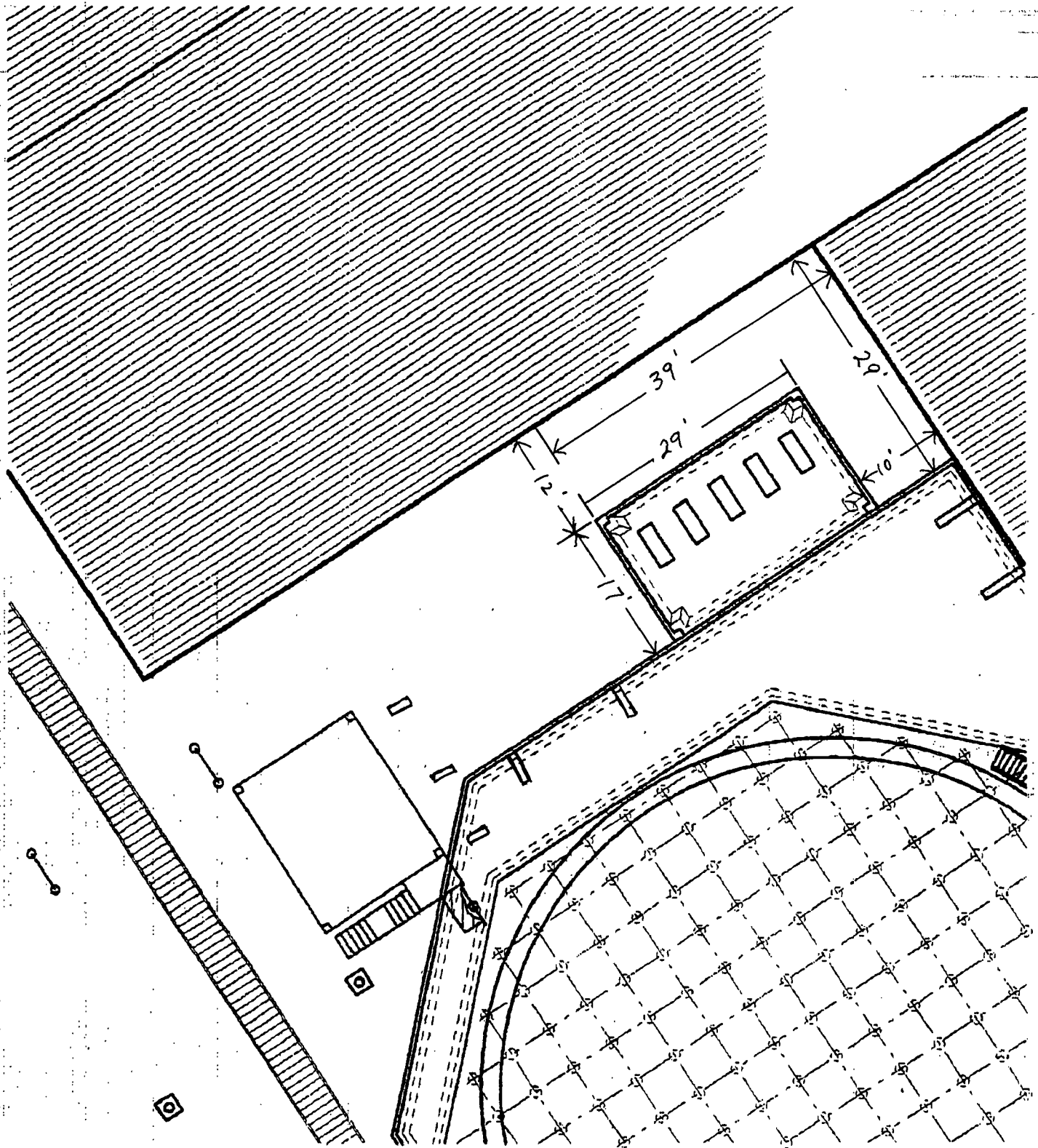
I just wanted to keep everyone posted on this matter.

Amos



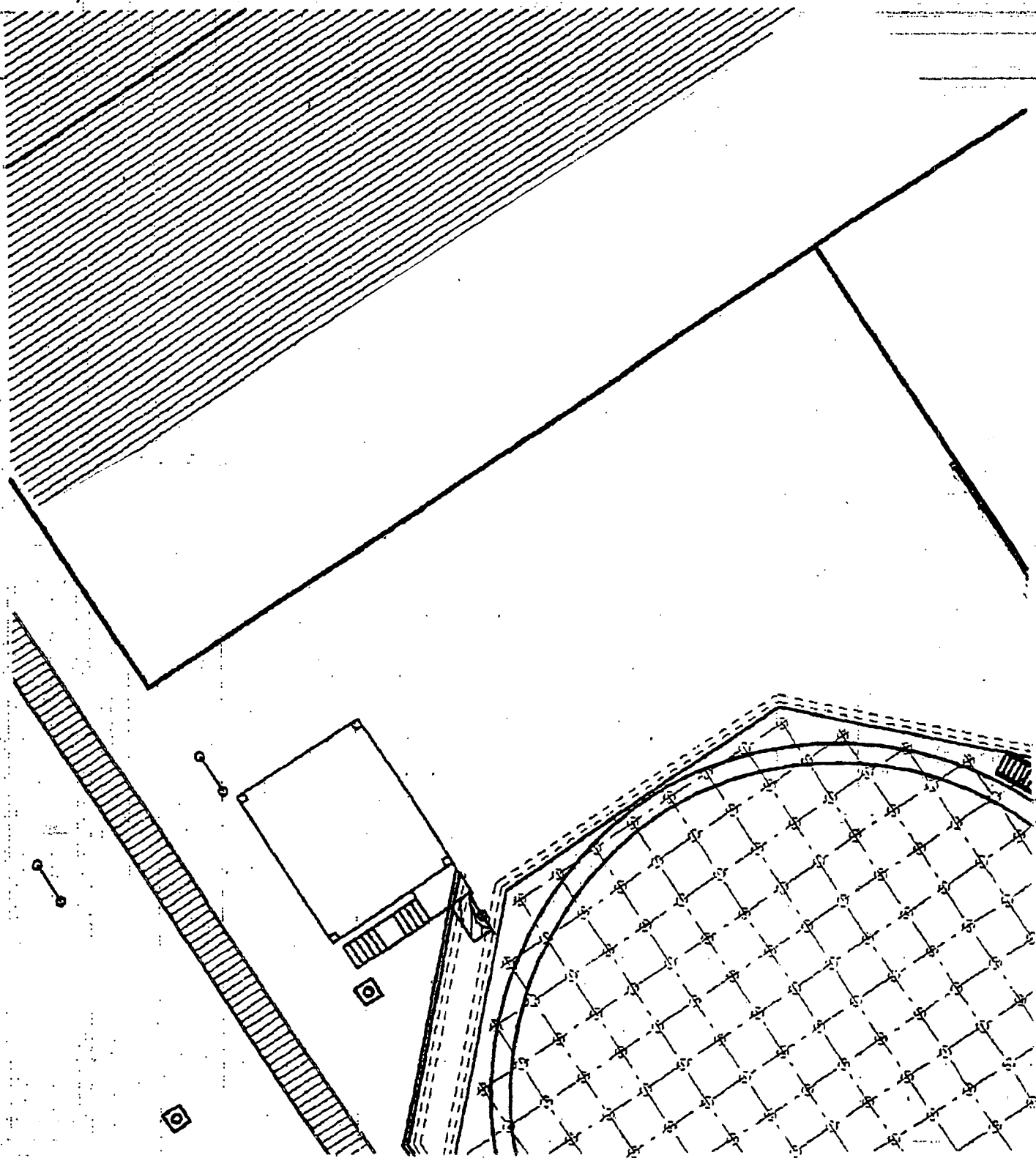
PLAN OF TANK AREA

KOPPERS PITCH SHIP TERMINAL
 PS1-10
 SCALE: 1/8" = 1'-0"



PLAN OF TANK AREA

KOPPERS PITCH SHIP TERMINAL
PST-10
SCALE: 1/8" = 1'-0"

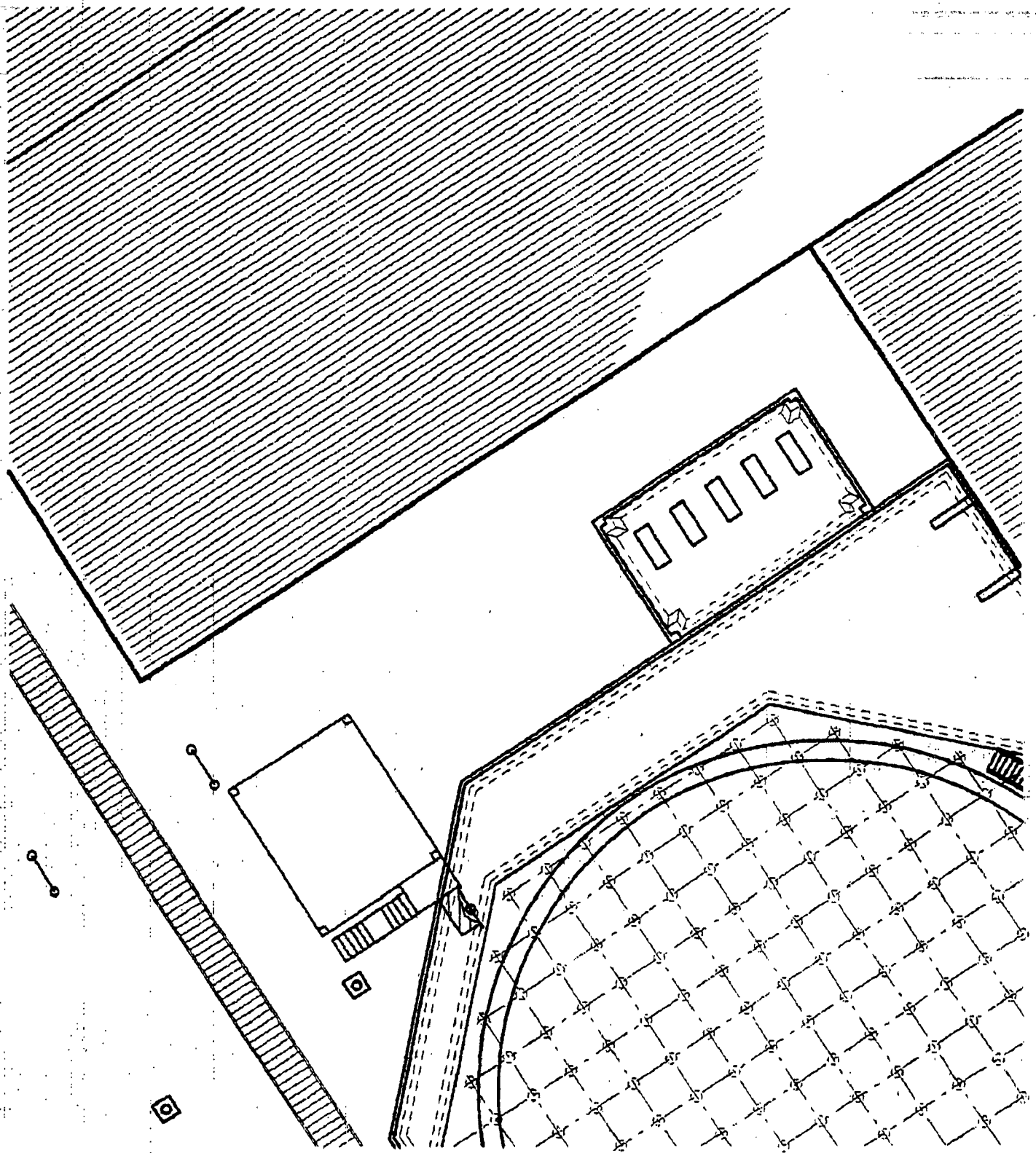


PLAN OF TANK AREA

KOPPERS PITCH SHIP TERMINAL

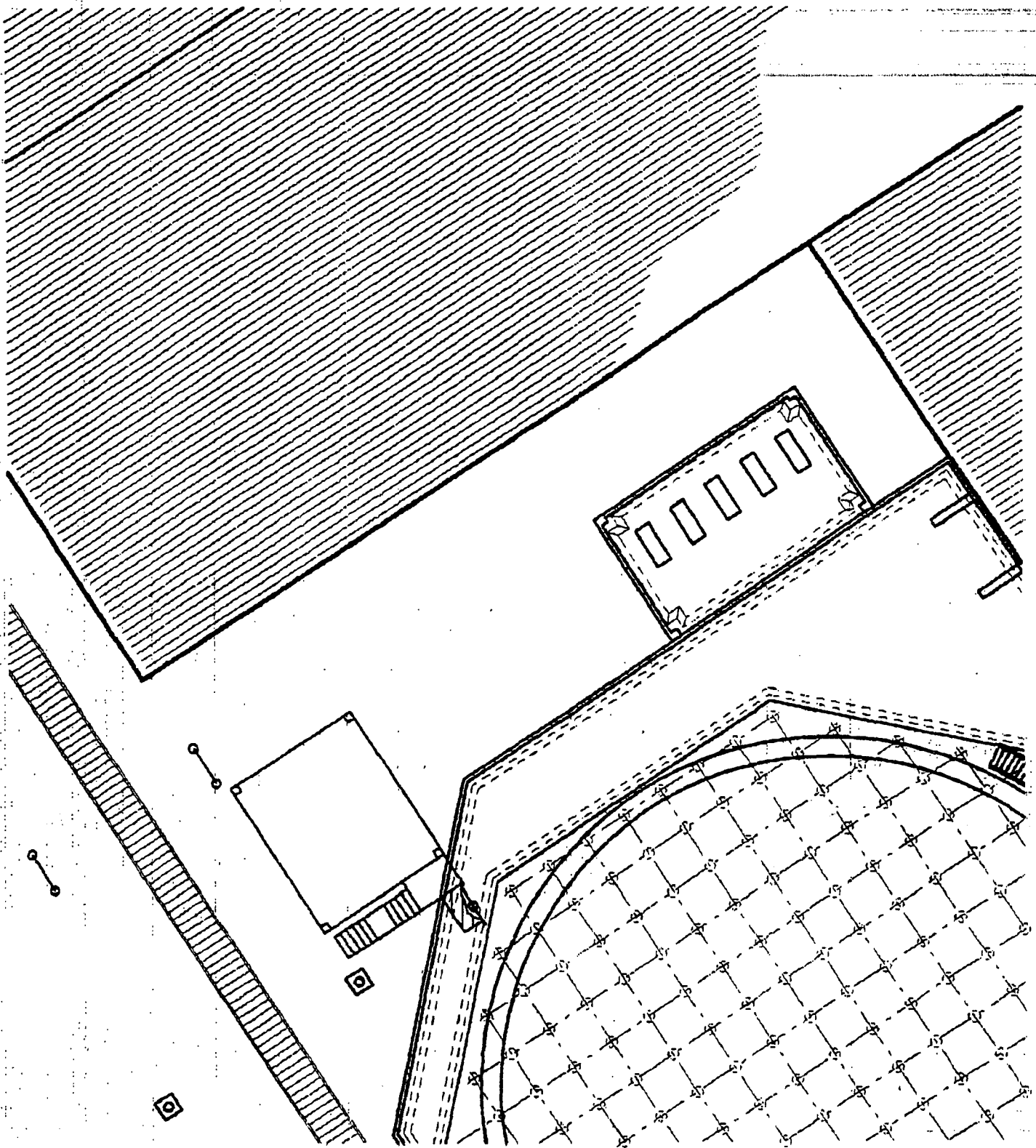
PS1-10

SCALE: 1/8" = 1'-0"



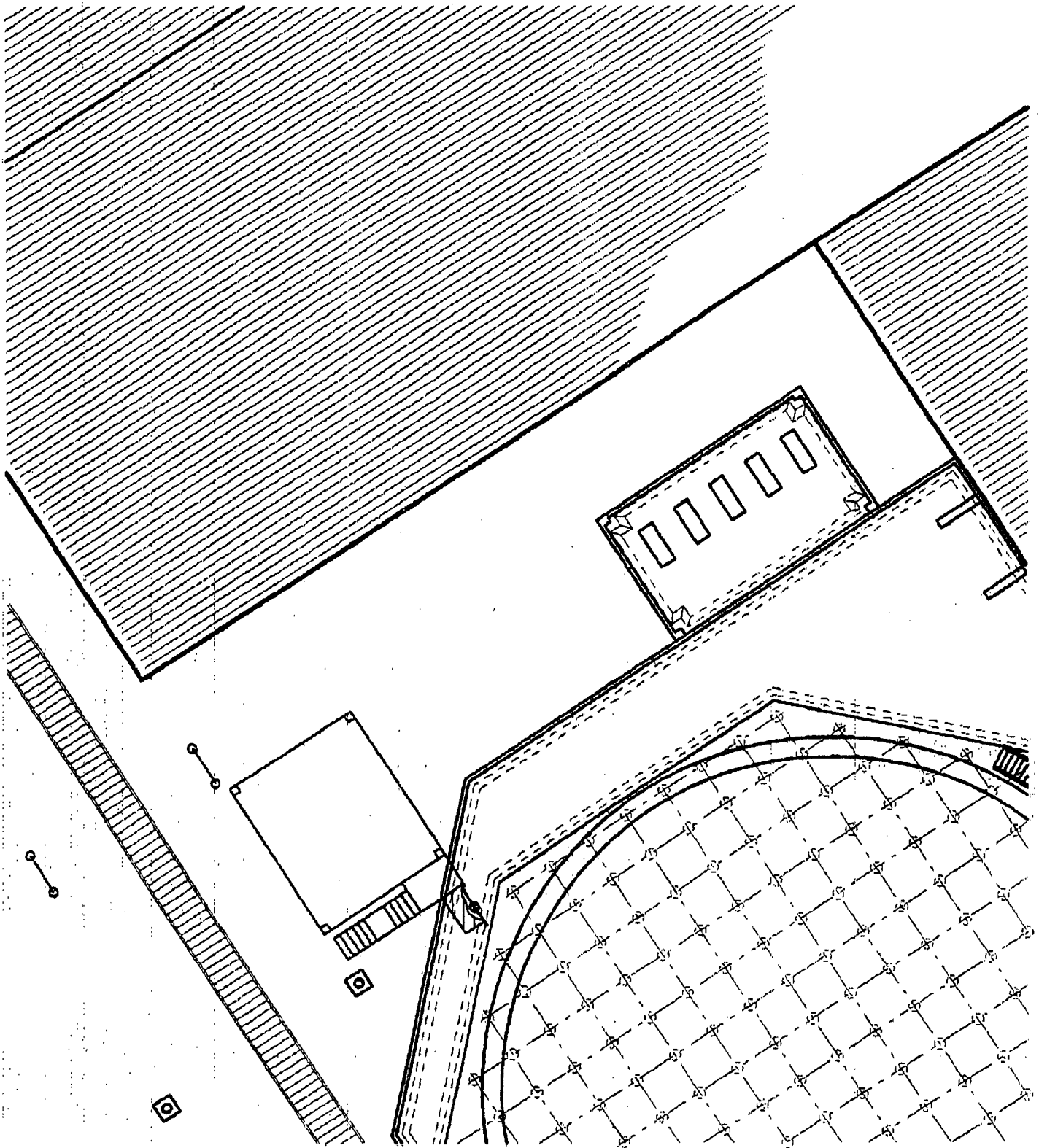
PLAN OF TANK AREA

KOPPERS PITCH SHIP TERMINAL
PST-10
SCALE: 1/8" = 1'-0"



PLAN OF TANK AREA

KOPPERS PITCH SHIP TERMINAL
PST-10
SCALE: 1/8" = 1'-0"



PLAN OF TANK AREA

KOPPERS PITCH SHIP TERMINAL
PST-10
SCALE: 1/8" = 1'-0"

INTEROFFICE CORRESPONDENCE

To: Larry Flaherty

From: John A. Oxford

Location: K-1750

Location: Portland Plant

Subject: Soil Sample

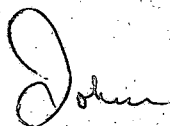
Date: July 30, 1992

Dear Larry:

Per your instructions and in conjunction with instructions from William Swearingen a soil sample from the building site for the new pitch storage building, was taken and submitted for analysis. This sample was given to Coffey Lab in Portland (a D.E.Q. Registered Lab) for T.C.L.P. and Characteristic Analysis. Results of sample show no detectible components for Pesticide or Organics. The only result was on the metals test, it showed a result of Barium in the amount of 0.4 P.P.M., the allowable amount is 100 P.P.M. for this element.

I assume that this good news will allow us to proceed with our construction plans. A copy of the results will be sent to William Swearingen as soon as they are received.

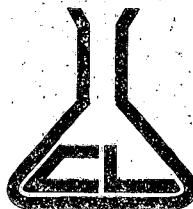
Regards,



John

C.C. A. Kamerer	Western Region
E. Bennett	K-2050
W. Swearingen	K-1800
W. Turner	K-1600

CHAIN OF CUSTODY



(503) 276-0385

[illegible]

WHITE COPY - COFFEY LABORATORIES

PINK COPY - CLIENTS COPY

SHADED AREA FOR LABORATORY USE ONLY

CHAIN OF CUSTODY INSTRUCTIONS ON BACK OF PINK COPY

(7/90).

Koppers003895



RECEIVED

AUG - 3 1992

KOPPERS INDS., INC.

Report Date: July 30, 1992
PORTLAND, OR

Job#: GE-920717N-1

PO#: VERBAL JOHN

Project#: None

Project: None

Attention: John Oxford
Koppers Industry
7540 NW St. Helens Rd.
Portland, OR 97210

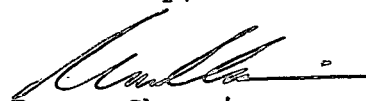
SAMPLE INFORMATION:

Date Samples Were Received By Laboratory: 07/17/92

Lab No.	Field Identification	Sample Matrix	Date	Time
1	Building Site	Soil	07-17-92	1000

ANALYTICAL RESULTS ARE ON THE FOLLOWING PAGE(S)

Sincerely,


Renee Chauvin
Technical Director

RJC/mlh

This report is for the sole and exclusive use of the above-named client. Samples are retained 15 days from the report date, or until holding time expires. Results pertain only to samples submitted.

COFFEY LABORATORIES, INC.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003896



Job#: GE-920717N-1

Koppers Industry
Page 2

SUBJECT: TCLP Analysis

Sample ID: Building Site

<u>ANALYTE</u>	<u>METHOD</u>	<u>DETECTION LIMIT</u>	<u>SAMPLE RESULTS</u>	<u>EPA LIMIT</u>
Arsenic	*	0.8	ND	5.0
Barium	*	0.1	0.4	100
Cadmium	*	0.1	ND	1.0
Chromium	*	0.1	ND	5.0
Lead	*	0.4	ND	5.0
Mercury	*, 7470	0.05	ND	0.2
Selenium	*	0.8	ND	1.0
Silver	*	0.1	ND	5.0

* Leachate preparation by EPA SW-846 Method 1311. Analysis by EPA SW-846 Method 6010, ICP, unless otherwise noted.

Analysis Performed: Volatile organics in TCLP extract,
by EPA Methods 8010/8020, GC/PID/HED.

<u>ANALYTE</u>	<u>DETECTION LIMIT</u>	<u>LABORATORY BLANK</u>	<u>SAMPLE RESULTS</u>	<u>EPA LIMIT</u>
Benzene	0.05	ND	ND	0.5
Carbon tetrachloride	0.05	ND	ND	0.5
Chlorobenzene	0.05	ND	ND	100
Chloroform	0.05	ND	ND	6.0
1,4-Dichlorobenzene	0.05	ND	ND	7.5
1,2-Dichloroethane	0.05	ND	ND	0.5
1,1-Dichloroethylene	0.05	ND	ND	0.7
Methyl ethyl ketone	0.50	ND	ND	200
Tetrachloroethylene	0.05	ND	ND	0.7
Trichloroethylene	0.05	ND	ND	0.5
Vinyl chloride	0.20	ND	ND	0.2

Results expressed as mg/L unless otherwise noted.

ND means none detected at or above the detection limit listed.

REPORT CONTINUES

COFFEY LABORATORIES, INC.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003897



Job#: GE-920717N-1

Koppers Industry
Page 3

Analysis Performed: Chlorinated semi-volatile organics in TCLP extract,
by modified EPA Methods 8080/8150, GC/ECD

Sample ID: Building Site

<u>ANALYTE</u>	<u>DETECTION LIMIT</u>	<u>LABORATORY BLANK</u>	<u>SAMPLE RESULTS</u>	<u>EPA LIMITS</u>
Chlordane	0.03	ND	ND	0.03
Heptachlor	0.001	ND	ND	0.008
Hexachlorobenzene	0.001	ND	ND	0.13
Hexachloro-1,3-butadiene	0.02	ND	ND	0.5
Hexachloroethane	0.02	ND	ND	3.0
Endrin	0.004	ND	ND	0.02
Lindane	0.004	ND	ND	0.4
Methoxychlor	0.02	ND	ND	10.0
2,4-D	0.02	ND	ND	10.0
2,4,5-TP	0.02	ND	ND	1.0
Toxaphene	0.03	ND	ND	0.5

Results expressed as mg/L unless otherwise noted.

ND means none detected at or above the detection limit listed.

Analysis Performed: Phenols and miscellaneous semi-volatile organics
in TCLP extract, by modified EPA Method 8040, GC/FID

<u>ANALYTE</u>	<u>DETECTION LIMIT</u>	<u>LABORATORY BLANK</u>	<u>SAMPLE RESULTS</u>	<u>EPA LIMITS</u>
m-Cresol	5.0	ND	ND	200
o/p Cresol	5.0	ND	ND	200
2,4-Dinitrotoluene	0.1	ND	ND	0.13
Nitrobenzene	0.1	ND	ND	2.0
Pentachlorophenol	5.0	ND	ND	100
Pyridine	1.0	ND	ND	5.0
2,4,5-Trichlorophenol	5.0	ND	ND	400
2,4,6-Trichlorophenol	0.2	ND	ND	2.0

Results expressed as mg/L unless otherwise noted.

ND means none detected at or above the detection limit listed.

COFFEY LABORATORIES, INC.

12423 N.E. Whitaker Way • Portland, OR • 97230 • (503) 254-1794 • FAX (503) 254-1452

Koppers003898

Koppers003899

KOSCO**KOREA STEEL CHEMICAL CO.,LTD.**
12, 13TH FLOOR, SAMDO BLDG., 1-170,
SUNHWA-DONG, CHUNG-GU, SEOUL, KOREA
TEL : (02) 3705-7000 FAX : (02) 771-0741-8

ADVICE OF SHIPMENT

KOPPERS INDUSTRIES, INC.
7540 NW SAINT HELENS ROAD,
PORTLAND, OREGON 97210-3663

TEL : 503 286 3681

FAX : 503 285 2831

ATTN : MR. AMOS S. KAMERER

DATE : DEC. 10, 1999

WE ARE PLEASED TO INFORM YOU OF SHIPMENT DETAILS AS FOLLOWS ;

- ▶ INVOICE NO. : HVBTI90084A01 DATED DEC. 08, 1999
 - ▶ QUANTITY : 4,681.494MT OF LIQUID PITCH
 - ▶ AMOUNT : [REDACTED]
 - ▶ ON BOARD DATE : DEC. 08, 1999
 - ▶ DUE DATE : JAN. 22, 2000
- THIS DUE AMOUNT SHOULD BE PAID ON/OR BEFORE JAN. 22, 2000 TO THE BANK AND ACCOUNT NUMBER INDICATED ON THE COMMERCIAL INVOICE ENCLOSED.
- ▶ VESSEL NAME : M/V "OSPREY ARROW"
 - ▶ FROM KWANGYANG KOREA, TO PORTLAND, OREGON, U. S. A.

THE FOLLOWING SHIPPING DOCUMENTS ARE ENCLOSED HERewith ;

- 1. BILL OF LADING : 3 ORIGINALS + 2 COPIES
- 2. COMMERCIAL INVOICE : 3 ORIGINALS
- 3. COUSTOMS INVOICE : 3 ORIGINALS
- 4. CERTIFICATE OF ORIGIN : 1 ORIGINAL + 1 COPY
- 5. CERTIFICATE OF ANALYSIS : 3 ORIGINALS
- 6. CERTIFICATE OF WEIGHT : 3 ORIGINALS
- 7. CERTIFICATE OF VESSEL CLEANLINSS : 3 ORIGINALS

BEST REGARDS,



J. W. LEE

GENERAL MANAGER
KOREA STEEL CHEMICAL CO., LTD



We acquired ISO 9002 and ISO 14001 certification

Koppers003900

CODE NAME: "CHEMTANKWAYBILL 85"

Shipper

DAEWOO CORPORATION
C.P.O. BOX 2810 SEOUL KOREA

NON-NEGOTIABLE
CHEMICAL TANK
WAYBILL

CTWB No.

1

Reference No.

Consignee (not to order)

TO ORDER

Notify address

KOPPERS INDUSTRIES, INC.
C/O PORT OF PORTLAND
PORTLAND, OREGON, U.S.A

FIRST ORIGINAL

Vessel

OSPREY ARROW V.122

Port of loading

KWANGYANG, KOREA

Port of discharge

PORTLAND, OREGON, U.S.A

Description of cargo

Weight (in metric tons)

4,681.494 M/T

N/M IN BULK

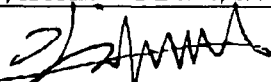
LIQUID PITCH

* PURCHASE ORDER NO. : OM9-1670-1

" FREIGHT PAYABLE AS PER CHARTER PARTY "

ON BOARD DATE :
DEC.08,1999

Particulars declared by the Shipper

Issued pursuant to Charter Party Indicated hereunder	RECEIVED on board the cargo specified above, according to Shipper's declaration in apparent good order and condition - unless otherwise stated herein - weight, volume, quality and value unknown, for delivery at the port of discharge or so near thereto as the Vessel may safely get, always afloat. The cargo shipped under this Waybill will be delivered to the Party named as Consignee or its authorized agent, on production of proof of identity without any documentary formalities. The Carrier to exercise due care ensuring that delivery is made to the proper party. However, in case of incorrect delivery, no responsibility will be accepted unless due to fault or neglect on the part of the Carrier. FOR CONDITIONS OF CARRIAGE SEE OVERLEAF.	
Charter Party (Code name, place and date of issue)	Freight payable at	Place and date of issue
Freight payable in accordance therewith.		SEOUL, KOREA - DEC.08, 1999
		Signature  BARWIL HYOP WOON AGENCIES LTD. AS AGENTS FOR AND ON BEHALF OF MASTER/OWNER OF SAID VESSEL

Printed and sold by
Fr. G. Knudtzons Bogtrykkeri A/S, 55 Toldbodgade, DK-1253 Copenhagen K.
by authority of The Baltic and International Maritime Council (BIMCO),
Copenhagen, Copyright.

KWANGYANG, KOREA

PORTLAND, OREGON,
U. S. A

ORIGINAL

6) Carrier

OSPREY ARROW

7) Sailing on / about

DEC. 08, 1999

12) Marks and numbers of PKGS

13) Description of goods

14) Quantity/Unit

15) Unit-price

16) Amount

N/M IN BULK

FOB KWANGYANG KOREA

LIQUID PITCH

4,681.494M/T

USD242/MT

USD1,132,921.54

* GRAVITY : 1.26 - 1.27

* INVOICE NO. : HVBT190064A01 DATED DEC. 08, 1999

* PAYMENT INSTRUCTION

PLEASE PAY THIS INVOICE AMOUNT BY TELEGRAPHIC TRANSFER (T/T)
TO ACCOUNT NO. 361-81-100332 SHIN HAN BANK, SEODAEHUN BRANCH,
SEOUL, KOREA IN FAVOUR OF DAEWOO CORP SEOUL (HVB SECTION) AND
PLEASE INDICATE OUR REFERENCE NO. HVBT190064A01 WHEN YOU REMIT
THIS INVOICE AMOUNT.

////////////////////////////////////

17) C. P. O. 2810 SEOUL, KOREA
CABLE : DAEWOO SEOUL
TELEX : DAEWOO K23341.4, K24295
TELEPHONE : 759-2114

18) Signed by



DAEWOO
CORPORATION

HVBT190064A01

ORIGINAL

DEPARTMENT OF THE TREASURY
UNITED STATES CUSTOMS SERVICE
19 U. S. C. 1481, 1482, 1484

SPECIAL CUSTOMS INVOICE
(Use separate invoice for purchased and non-purchased goods.)

Form Approved
O. M. B. No. 48-R0342

1. SELLER DAEWOO CORPORATION C.P.O. BOX 2810 SEOUL KOREA		2. DOCUMENT NR. *	3. INVOICE NR. AND DATE * HVBT190064A01 DEC. 08, 1999
5. CONSIGNEE TO ORDER		6. BUYER (if other than consignee) KOPPERS INDUSTRIES INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.	
8. NOTIFY PARTY * KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.		7. ORIGIN OF GOODS THE REPUBLIC OF KOREA	
10. ADDITIONAL TRANSPORTATION INFORMATION * FROM : KWANGYANG, KOREA TO : PORTLAND, OREGON, U.S.A CARRIER : OSPREY ARROW SAILING ON : DEC. 08, 1999		9. TERMS OF SALE, PAYMENT, AND DISCOUNT - F.O.B. KWANGYANG, KOREA • T/T REMITTANCE 45 DAYS AFTER B/L DATE	
11. CURRENCY USED		12. EXCH. RATE (if fixed or agreed)	13. DATE ORDER ACCEPTED

14. MARKS AND NUMBERS ON SHIPPING PACKAGES	15. NUMBER OF PACKAGES	16. FULL DESCRIPTION OF GOODS	17. QUANTITY	18. UNIT PRICE		20. INVOICE TOTALS
				18. HOME MARKET	19. INVOICE	
N/M IN BULK		LIQUID PITCH - PURCHASE ORDER NO. : OM9-1670-1	4,681.494M/Ts			
////////////////////////////////////						

21. <input type="checkbox"/> If the production of these goods involved furnishing goods or services to the seller (e.g. assists such as dies, molds, tools, engineering work) and the value is not included in the invoice price, check box (21) and explain below.		22. PACKING COSTS
27. DECLARATION OF SELLER/SHIPPER (OR AGENT)		23. OCEAN OR INTERNATIONAL FREIGHT
I declare: (A) <input type="checkbox"/> If there are any rebates, drawbacks or bounties allowed upon the exportation of goods, I have checked box (A) and itemized separately below. (B) <input type="checkbox"/> If the goods were not sold or agreed to be sold, I have checked box (B) and have indicated in column 9 the price I would be willing to receive.		24. DOMESTIC FREIGHT CHARGES
I further declare that there is no other invoice differing from this one (unless otherwise described below) and that all statements contained in this invoice and declaration are true and correct.		25. INSURANCE COSTS
(C) SIGNATURE OF SELLER/SHIPPER (OR AGENT): DAEWOO CORPORATION		26. OTHER COSTS (Specify Below)

29. THIS SPACE FOR CONTINUING ANSWERS


Authorized Signature

THIS FORM OF INVOICE REQUIRED GENERALLY IF RATE OF DUTY BASED UPON OR REGULATED BY VALUE OF GOODS AND PURCHASE PRICE OR VALUE OF SHIPMENT EXCEEDS \$500 OTHERWISE USE COMMERCIAL INVOICE

* Not necessary for U. S. Customs purposes.

Customs Form 5515 (12-20-76)

Koppers003903

COMMERCIAL INVOICE

IV91204831

1) Shipper/Reporter DAEWOO CORPORATION C. P. O. BOX 2810 SEOUL KOREA		8) No. & date of invoice HVBT190064A01 DEC. 08, 1999	
2) For Account & Risk of Messrs. KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U. S. A.		9) No. & date of L/C P/O NO. OM9-1670-1 DATED JAN. 25, 1999	
3) Notify Party KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U. S. A.		10) L/C issuing bank	
4) Port of loading KWANGYANG, KOREA		5) Final destination PORTLAND, OREGON, U. S. A.	
6) Carrier OSPREY ARROW		7) Sailing on / about DEC. 08, 1999	
11) Remarks: - THIS INVOICE AMOUNT SHOULD BE PAID ON OR BEFORE JAN. 22, 2000			
ORIGINAL			
12) Marks and numbers of PKGS N/M IN BULK	13) Description of goods LIQUID PITCH	14) Quantity/Unit 4,681.494M/T	15) Unit-price FOB KWANGYANG KOREA
		16) Amount	

LIQUID PITCH**4,681.494M/T**

* GRAVITY : 1.26 - 1.27
 * INVOICE NO. : HVBT190064A01 DATED DEC. 08, 1999
 * PAYMENT INSTRUCTION
 PLEASE PAY THIS INVOICE AMOUNT BY TELEGRAPHIC TRANSFER (T/T)
 TO ACCOUNT NO. 361-81-100332 SHIN HAN BANK, SEODAEMUN BRANCH,
 SEOUL, KOREA IN FAVOUR OF DAEWOO CORP SEOUL (HVB SECTION) AND
 PLEASE INDICATE OUR REFERENCE NO. HVBT190064A01 WHEN YOU REMIT
 THIS INVOICE AMOUNT.

17) C. P. O. 2810 SEOUL, KOREA
 CABLE : DAEWOO SEOUL
 TELEX : DAEWOO K23341.4, K24295
 TELEPHONE : 759-2114

18) Signed by


**DAEWOO
CORPORATION**

1. Seller DAEWOO CORPORATION C. P. O. BOX 2810 SEOUL KOREA		ORIGINAL CERTIFICATE OF ORIGIN issued by THE KOREA CHAMBER OF COMMERCE & INDUSTRY Seoul, Republic of Korea 원산지증명서 대한상공회의소	
2. Consignee TO ORDER		4. Buyer (if other than consignee) KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U. S. A.	
3. Particulars of Transport (where required) FROM : KWANGYANG, KOREA TO : PORTLAND, OREGON, U. S. A BY : OSPREY ARROW ON : DEC. 08, 1999		5. Country of Origin The Republic of Korea 6. Invoice Number and Date HVBT190064A01 DEC. 08, 1999	
7. Shipping Marks N/M IN BULK	8. Number and Kind of Packages; Description of Goods	9. Quantity: Gross Weight or Measurement 4,681.494M/T (QUANTITY)	

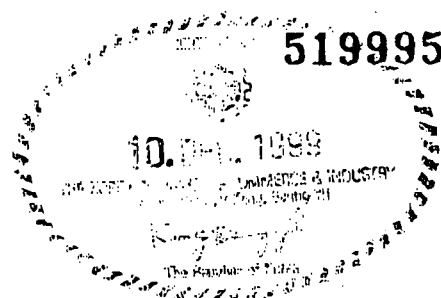
LIQUID PITCH

* **GRAVITY : 1.26 - 1.27**
* **PURCHASE ORDER NO. : OM9-1670-1**
* **INVOICE NO. : HVBT190064A01 DATED DEC. 08, 1999**

////////////////////////////////////

10. Other Information

The Korea Chamber of Commerce & Industry hereby certifies, on the basis of relevant invoice and other documents, that the above mentioned goods originate in the country shown in column 5.



THE KOREA CHAMBER OF COMMERCE & INDUSTRY


KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:

"KOMSA" SEOUL
C.P.O.BOX 3121 SEOUL
TLX,NO,KOMSA K24945
FAX. 754 - 8109

TELEPHONE

SEOUL 754-8106-8	YOSU 62-4589
PUSAN 44-5786	62-6599
ULSAN 72-7627	DONGHAE 33-1887
INCHON 763-9501-2	2474
MOKPO 43-1205	KWANGYANG 791-3950
POHANG 72-3942	KUNSAN 2-9350

COPY

Report No. G-991208-01 Issued at: Kwangyang, Korea Date: Dec. 8, 1999

TANK DRY CERTIFICATEApplicant: Messrs. DAEWOO CORPORATION SEOUL, KOREAName of Vessel: " OSPREY ARROW " Voy. No. 122Place & Date of Survey: Dec. 7, 1999 at the steel scrap wharf of POSCO, Kwangyang, Korea

THIS IS TO CERTIFY THAT we, the undersigned surveyors to KOREA MARINE
SURVEYORS & SWORN MEASURERS' CORPORATION, have this date inspected cargo tank(s)

Nos.: No. 1 AND NO. 2 TANKand found same to be empty, dry, suitable and ready for loading Liquid Pitch in bulk

Heating coils in the following of the above inspected tank(s) are tested
with _____ steam presure and found tight _____

Previous Cargo : First Loading

This inspection was made and certificate is given without prejudice to any question of rights
and/or liabilities on any persons interested or concerned.



MARINE SURVEYORS & SWORN
MEASURERS' CORPORATION (KOMSA)

Staff Surveyor, S. C. Ju

KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:

"KOMSA" SEOUL
C. P. O. BOX 3121 SEOUL
TLX. NO. KOMSA K24945

TELEPHONE

SEOUL 754-8106-8 YOSU 62-4589
PUSAN 44-5786 62-6599
ULSAN 72-7627 KWANGYANG 791-3950

COPY

SURVEY REPORT

(Sampling and Analysis Certificate)

Report No. C-991208-01-AIssued at: Kwangyang, KoreaDate: Dec. 8, 1999

THIS IS TO CERTIFY THAT we, the undersigned, Korea Marine Surveyors & Sworn Measurers' Corporation, Kwangyang did at the request of Messrs. DAEWOO CORPORATION SEOUL, KOREA attend at the laboratory in the premises of the manufacturer in order to draw out a sample of the shipping cargo to be loaded on board the undernoted vessel and herewith report as follows:

DESCRIPTION

Name of Carrier : " OSPREY ARROW "
Commodity : Liquid Pitch in bulk
Quantity : 4,681.494 M/Tons
Port from/to : Kwangyang, Korea to Portland, Oregon, U.S.A

SAMPLING/ANALYSIS

The analysis for the above samples was carried out on attendance of the undersigned, the General Marine Surveyor, at the laboratory in the premises of the manufacturer on Dec. 8, 1999 and resulted as follows:

TEST ITEM & UNIT	SPEC.	RESULTS	METHOD
SOFTENING POINT(°C)	108~112	111.0	ASTM D 3104-87
QUINOLINE INSOLUBLE(%)	8~12	9.8	ASTM D 2318-86
TOLUENE INSOLUBLE(%)	28 MIN.	28.2	ASTM D 4072-91
COKING VALUE(%)	55.0 MIN.	59.8	ASTM D 2416-84
DISTILLATION TO 360°C(%)	3.0 MAX.	0.81	ASTM D 20-91
SPECIFIC GRAVITY(g/cm3)	1.31 MIN.	1.320	ASTM D 2320-81
ASH(%)	0.30 MAX.	0.10	ASTM D 2415-66
SODIUM(ppm)	220 MAX.	63	A. A. METHOD
MOISTURE(%)	0.30 MAX.	0.1	ASTM D 95-83
MESOPHASE(<10μm)(%)	2.0 MAX.	0.13	ASTM D 4616-91

This report is given without prejudice.



KOREA MARINE SURVEYORS & SWORN
MEASURERS' CORPORATION

Staff Surveyor, S. C. Ju

KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:
"KOMSA" SEOUL
TLX. NO. KOMSA K24945
FAX. 754 - 8109

COPY

TELEPHONE
SEOUL 754-8106-8 YOSU 62-4589
ULSAN 72-7627 DONGHAE 33-1887
INCHON 763-9501-2 2474
MOKPO 43-1205 KWANGYANG 761-3950

SURVEY REPORT

(Liquid Gauging of Tankers)

Report No. C-991208-01-B Date Dec. 8, 1999

Applicant: DAEWOO CORPORATION SEOUL, KOREA

Name of Vessel: " OSPREY ARROW " Gross tonnage: _____

Port from and to: Kwangyang, Korea to Portland, Oregon, U.S.A

Place & Date of Survey: Dec. 8, 1999 at the steel scrap wharf of POSCO, Kwangyang, Korea

Description of cargo	Quantity on Invoice/B/L	Density	Remarks
Liquid Pitch in bulk	4,681.494 M/Tons	1.2332	204.2 °C

We hereby certify that the following figures are correct to our best knowledge, based on the Tank Scales provided on board.

Tank No.	Gauging (Ull.)	Corrected (Ull.)	Water	App. Volume (K/L)	Temp (°C)	Density	Net Volume (M/T)
No. 1	2.080	-	-	3,722.280	204.2	1.2332	4,590.316
No. 2	2.089	-	-	3,317.530	204.2	1.2332	4,091.178
TOTAL :	2 TANKS						8,681.494 M/T
Remarks :- Ship's on board quantity were distributed based on the portion of each B/L figures which are as follows:-							
B/L Figures				4,681.494 M/Tons			
Remainder Other B/L				4,000.000 M/Tons			

That is

FOUR THOUSAND SIX HUNDRED AND EIGHTY ONE DECIMAL FOUR NINE FOUR(4,681.494)M/TONS.

Ship's Draft:Fore 6.700 m

After 8.200 m

Trim 1,500 m by the stern



KOREA MARINE SURVEYORS &
SWORN MEASURERS' CORPORATION

Staff Surveyor, S L Ju

KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION
(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

Report No. G-991208-01-CIssued at: Kwangyang, KoreaDate: Dec. 8, 1999

COPY
SURVEY REPORT
(Certificate of Sampling)

THIS IS TO CERTIFY THAT WE, the undersigned surveyor to Korea Marine Surveyors & Sworn Measurers' Corporation, Kwangyang, Korea, did, at the request of Messrs. DAEWOO CORPORATION SEOUL, KOREA attend at the tank of manufacturer in order to draw out a sample of the shipping cargo to be loaded on board the undernoted vessel and herewith report as follows:-

DESCRIPTION

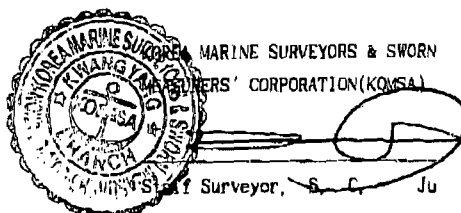
Name of Carrier : " OSPREY ARROW " Voy. No. : 122
Commodity : Liquid Pitch in bulk
B/L Quantity : 4,681.494 M/Tons
Port from/to : Kwangyang, Korea to Portland, Oregon, U.S.A

SAMPLING

Attending at the above mentioned place in company with parties concerned, the undersigned inspected sampling cans furnished by the applicant and found them cleaned and dry and then samples were taken in accordance with sampling method and plugged immediately/tightly by the undersigned surveyor.

<u>COMPONENT</u>	<u>QUANTITY</u>	<u>DISTRIBUTED</u>
BASED ON	3 Cans	One(1) can retained by this corporation.
ISO STANDARD		One(1) can to laboratory for analysis.
6257-1980(E)		One(1) can on board a plane for receiver at destination.

This survey was made and report is given without prejudice to any question of rights and/or liabilities on any other persons interested or concerned.



KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION
(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

Report No. C-991208-01-DIssued at: Kwangyang, KoreaDate: Dec. 8, 1999**COPY****CERTIFICATE OF CARGO LOADING BY TANK**

I hereby certify that, as the result of reading of the level gauge for the subject cargo and calculation of each tank on board the M.V "OSPREY ARROW", the following quantities of Liquid Pitch were found to be loaded into the tanks as shown below:-

No.1 Tank	: 4,590.316 M/Tons
No.2 Tank	: 91.178 M/Tons
Total : 2 Tanks	4,681.494 M/Tons

This survey was made and report is given without prejudice to any question of rights and/or liabilities on any other persons interested or concerned.



KOREA MARINE SURVEYORS & SWORN
MEASURERS' CORPORATION (KOMSA)

Surveyor, S. C. Ju

COMMERCIAL INVOICE

Seller GENERAL EXPORTER, IMPORTER & MANUFACTURER SsangYong Corporation 24-1, 2-ga, Jeo-dong, Jung-gu, Seoul 100-748, Korea Central P.O. Box 409		Invoice No. and Date CHI-940324HJ DATED MAR. 24, 1994	
Consignee <p style="text-align: center;">TO ORDER</p>		L/C No. and Date PURCHASE ORDER NO. OM4-1670-2 DATED MAR. 22, 1994	
Departure Date MAR. 30, 1994		Buyer (if other than consignee) KOPPERS INDUSTRIES, INC. 436 SEVENTH AVENUE PITTSBURGH, PA 15219 UNITED STATES OF AMERICA	
Vessel/Flight From MV. OCEAN CROWN POHANG, KOREA		Terms of delivery and payment CIF, PORT OF PORTLAND DUE DATE: MAY 28, 1994	
To PORT OF PORTLAND, U.S.A.			

Shipping marks	No. & Kind of Pkgs: Goods Description	Quantity	Unit Price	Amount
N/M IN BULK	COAL TAR PENCIL PITCH			
	6,000 METRIC TONS			

CIF, PORT OF PORTLAND

* SAY : US DOLLARS ONE MILLION TWO HUNDRED NINETY THOUSAND ONLY

* PAYMENT INSTRUCTION :
 PLEASE PAY THIS INVOICE AMOUNT BY TELEGRAPHIC TRANSFER
 TO HANIL BANK H.O.'S ACCOUNT NO. 10952822
 WITH CITIBANK NEW YORK 111 WALL STREET 16FL. NEW YORK
 N.Y. 10043, U.S.A.
 IN FAVOUR OF SSANGYONG CORPORATION (CHEMICAL SECTION 1)
 SEOUL, KOREA.
 AND PLEASE INDICATE OUR REFERENCE NO. H0404005524-3305
 WHEN YOU REMIT THIS INVOICE AMOUNT.

FR # 927010

KOPPERS INDUSTRIES, INC. x/x/x/x/x/x/x/x/x/x
 WIRE TRANSFER
 NO. 06940201
 DATE 6-1-94
 NO. 142/
 ATTENDED BY *McClair/chem*

Signed by
SsangYong Corporation
Kim Hyeon-hi
 H. KIM Manager Chemical Sec. 1

KI

GIL	DET.	S-DET.	LOC.	DEPT.	TAX	EMP #	MOVE #	AMOUNT
5050	10	94	9270	X	0362			

OK TO PAY *5/21/94*

IMPORTANT: CIRCLE TERMS ON INVOICE

GROSS AMOUNT
 DISCOUNT \$
 NET \$

CIRCLE TERMS ON INVOICE

INV # **CHI-940324HJ** DATE **03/24/94**

↓ A/P DEPARTMENT USE ONLY ↓

VENDOR NUMBER **101024191004**

TERMS CODE **7** DUE DATE: **7-1-94**

DIVISION **483** MONTH **6** AUDIT NUMBER **1000002**

RECEIVED

JUL - 5 1994

**KOPPERS INDS., INC.
PORTLAND, OR**

COMMERCIAL INVOICE

Seller GENERAL EXPORTER, IMPORTER & MANUFACTURER SsangYong Corporation 24-1, 2-ga, Jeo-dong, Jung-gu, Seoul 100-748, Korea Central P.O.Box 409		Invoice No. and Date CHI-931019/1HJ DATED OCT. 30, 1993	
Consignee TO ORDER		L/C No. and Date PURCHASE ORDER NO. OM3-1670-4 DATED SEPT. 28, 1993	
Departure Date OCT. 30, 1993		Buyer (if other than consignee) KOPPERS INDUSTRIES, INC. 436 SEVENTH AVENUE PITTSBURGH, PA 15219 UNITED STATES OF AMERICA	
Vessel/Flight From POHANG, KOREA To PORT OF PORTLAND, U.S.A.		Other References No: 01940701 Date: 1-10-94 Ref 3688 Ver By KIM	
Terms of delivery and payment CIF, PORT OF PORTLAND DUE DATE: JANUARY 10, 1994			

Shipping marks	No. & Kind of Pkgs: Goods Description	Quantity	Unit Price	Amount
N/M IN BULK	COAL TAR PENCIL PITCH	8,000METRIC TONS		
		U		

CIF, PORT OF PORTLAND

* SAY : US DOLLARS ONE MILLION SEVEN HUNDRED FORTY FOUR THOUSAND ONLY

* PAYMENT INSTRUCTION :
 PLEASE PAY THIS INVOICE AMOUNT BY TELEGRAPHIC TRANSFER
 - *TO KOREA FIRST BANK H.O'S ACCOUNT NO. 10952953
 WITH CITIBANK N.A. 111 WALL STREET, NEW YORK N.Y.
 10043, U.S.A.
 IN FAVOUR OF SSANGYONG CORPORATION (CHEMICAL SECTION 1).
 SEOUL, KOREA.
 AND PLEASE INDICATE OUR REFERENCE NO. NAO52K3120615
 WHEN YOU REMIT THIS INVOICE AMOUNT.

Spec. Ins. →

x/x/x/x/x/x/x/x/ x/x/x/x/x/x/x/x/x x/x/x/x/x/x/x/x/x

WIFE TRANSFER
 CITIBANK, NYC, NY #021000089

SsangYong Corporation
 Signed by
Chi Sung Hyun
 S. H. CHI
 MANAGER
 CHEMICAL SEC 1.

GIL	DET.	S-DET.	LOC.	DEPT.	TAX	EMP #	MOVE #
5050	15	93	1270	X	0362		

INV # CHI-931019/1HJ DATE 10/30/93

↓ A/P DEPARTMENT USE ONLY ↓

VENDOR NUMBER	010249004	
TERMS CODE	DUE DATE: 1/10/94	
DIVISION	MONTH	AUDIT NUMBER
483	1	000173

OK TO PAY *Jan 12/93*

GROSS AMOUNT
 DISCOUNT \$
 NET \$

IMPORTANT: CIRCLE TERMS ON INVOICE

RECEIVED

JAN 31 1994

**KOPPERS INDS., INC.
PORTLAND, OR**

RECEIVED

AUG 24 1993

KOPPERS INDS., INC.
PORTLAND, OR

KOPPERS COAL TAR PRODUCTS PTY LTD
A.C.N. 003 947 699
Woodstock Street,
Mayfield .N.S.W.

P.O. Box 23,
Mayfield. N.S.W. 2304
Australia.

KOPPERS INDUSTRIES, INC.
WIRE TRANSFER

Telephone: 61 49 674777
Fax: 61 49 674998

NO. 0893 080/ RR: 85634

DATE 8-17-93

REF. ID 2875

VERIFIED BY FRAN

INVOICE NO:
DATE:
GOODS:
SHIPPED PER:
LOADING:
DISCHARGE:
FOR ACCOUNT & RISK OF

6357
15th July, 1993
Hard Pitch
"SOCOFL STAR"
Ex Dalian, China on 1st July, 1993
Portland (Oregon) USA
Koppers Industries Incorporated
1750 Koppers Building
Pittsburgh, Pa. 15219
USA
OM3-1670-3

ORDER NO.

QUANTITY & DESCRIPTION

UNIT PRICE
USD/METRIC TONNE

FOB PORTLAND
USD

5260 M/T Hard Pitch
Add Ocean Freight



SPECIFICATIONS

Mettler Softening Point: 110.3 C (ASTM D3104)
Fractional Distillation: 3.0% (ASTM D2569)
Quinoline Insoluble: 3.8% (ASTM D2318)
Moisture: 0.4% (ASTM D95)

*see attached
Bank info*

PACKING: In Bulk

PAYMENT: 30 Days After Receipt of Goods to our bank account as follows:
Commonwealth Bank of Australia
SYDNEY N.S.W. AUSTRALIA
Refer Trade Finance FX

due 8/22/93

ok to pay wwt

FOR AND ON BEHALF OF COAL TAR PRODUCTS PTY LTD

will pay 8/17/93

*OK for discussion
with wwt*

[Signature]

AUG 10 1993

GIL	DET.	S-DET.	LOC.	DEPT.	TAX	EMP #	MOVE # PO #	AMOUNT	CIRCLE TERMS ON INVOICE		
5050	9	93	9270	X	0362			1,083,560	INV #	6357	DATE 7/15/93
									↓ A/P DEPARTMENT USE ONLY ↓		
									VENDOR NUMBER	0000424000	
									TERMS CODE	DUE DATE: 08/17/93	
									DIVISION	MONTH	AUDIT NUMBER
									483	8	000193
GROSS AMOUNT 1,083,560											
DISCOUNT \$											
NET \$ 1,083,560											

OK TO PAY *[Signature]* 8/17/93

IMPORTANT: CIRCLE TERMS ON INVOICE

Koppers003915

Facsimile Transmission
From Fax N°. 67 4998

KOPPERS

Date: 11 August 1993

Koppers Coal Tar Products Pty Limited
A.C.N. 003 947 699
Woodstock Street, Mayfield
P.O. Box 23, Mayfield, N.S.W. 2304
Telephone: 674777
Facsimile: 674998
Country Code: 61
Area Code - within Australia: 049
from overseas: 49
Telex: 28223

Attention: James L. Schaum
Controller, Tar Products K.1750

Company: Koppers Industries Inc.

Fax N°: 0011-1-412-227-2022

From: Graeme Wirrell

SUBJECT: Our Invoice No. 6357 - USD1,083,560.00 re Pitch ex China
per MV "Socoff Star" July 1993.

As we have a trust receipt maturing 18th August 1993, could
you please advise if payment of our invoice number 6357 for
USD1,083,560.00 can be made prior to this date. We note
from Walter Turner's recent fax that the ship was unloaded on
the 19th July.

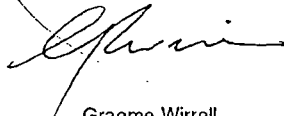
Bank information is as follows:

Account Name: Commonwealth Bank Sydney (in favour
of Koppers Coal Tar Products Pty Ltd)
Bank: Commonwealth Bank of Australia - *ABA*
18th Floor
599 Lexington Avenue
New York NY 10022
Account N°.: 1000164086
ABA Code: 902
Chips: 4271

RR 3524

We would appreciate it if the total amount of USD1,083,560.00
is remitted to this account with your covering fax advising us
of same. Thanking you in anticipation.

Regards,



Graeme Wirrell
Manager Finance & Control

KOPPERS COMPANY, INC.
TAR AND WOOD PRODUCTS SECTOR
1750 KOPPERS BLDG.
PITTSBURGH, PA. 15219

KOPPERS

Purchase Order

SUHITOMO CORPORATION OF AMERICA
To One California Street
Suite 2300
San Francisco, CA 94111

*boxed 11/25/92
mail 11/25/92*

DIVISION PROCUREMENT COPY

Date November 19, 1992
Order No. OM3-1670-1
Sheet #1 (Sheet 1)

Continued on sheet

Koppers requests that Seller furnish the goods and/or services listed below, subject to the terms on the face and reverse side of this order.

This order number must be shown on all shipments, invoices, correspondence, etc.

Ship To:

KOPPERS INDUSTRIES, INC.
C/O PORT OF PORTLAND
Portland, Oregon
U.S.A.

Invoice Instructions:

SEND ORIGINAL AND DUPLICATE COPY OF INVOICE TO RECEIVING PLANT IN ENVELOPE MARKED "ATTENTION: ACCOUNTS PAYABLE". SHOW ABOVE ORDER NUMBER ON INVOICE. LIST EACH SHIPMENT SEPARATELY.

Requisition No.	Inquiry No.	Account No.																																							
Quantity	Description																																								
	<u>COAL TAR PENCIL PITCH</u>																																								
	ANY REFERENCE TO "KOPPERS COMPANY, INC." ON THE FRONT OR REVERSE SIDE HEREOF, OR ON ANY ATTACHMENT, MUST BE CONSIDERED AS BEING "KOPPERS INDUSTRIES, INC."																																								
	SPECIFIC ATTENTION MUST BE GIVEN TO ADDRESSES AND INSTRUCTIONS CONTAINED IN THE BODY OF THIS ORDER, NOT THOSE PREPRINTED.																																								
Quantity:	6,000 Metric Tons + or - 5%																																								
Price:	[REDACTED] per Metric Ton, CIF Port of Portland																																								
Source:	Kawasaki Steel																																								
Specification:	<table><tr><td>Softening Point</td><td>ASTM D 3104</td><td>108-112°C.</td></tr><tr><td>Quinoline Insoluble</td><td>ASTM D 2318</td><td>8-12% prefer 10-12%</td></tr><tr><td>Toluene Insoluble</td><td>ASTM D 4072</td><td>28% min.</td></tr><tr><td>Beta Resin</td><td>TI-QI</td><td>16% min.</td></tr><tr><td>Coking Value</td><td>ASTM D 2416</td><td>54% min.</td></tr><tr><td>Specific Gravity</td><td>ASTM D 2320</td><td>1.310 min.</td></tr><tr><td>Distillation to 360°C</td><td>ASTM D 20</td><td>3.0% max.</td></tr><tr><td>Ash</td><td>ASTM D 2415</td><td>0.30% max.</td></tr><tr><td>Iron</td><td></td><td>400 ppm max.</td></tr><tr><td>Silicon</td><td></td><td>300 ppm max.</td></tr><tr><td>Sulfur</td><td></td><td>0.70% max.</td></tr><tr><td>Sodium</td><td></td><td>120 PPM max.</td></tr><tr><td>Moisture</td><td>ASTM D 95</td><td>0.5% max.</td></tr></table>		Softening Point	ASTM D 3104	108-112°C.	Quinoline Insoluble	ASTM D 2318	8-12% prefer 10-12%	Toluene Insoluble	ASTM D 4072	28% min.	Beta Resin	TI-QI	16% min.	Coking Value	ASTM D 2416	54% min.	Specific Gravity	ASTM D 2320	1.310 min.	Distillation to 360°C	ASTM D 20	3.0% max.	Ash	ASTM D 2415	0.30% max.	Iron		400 ppm max.	Silicon		300 ppm max.	Sulfur		0.70% max.	Sodium		120 PPM max.	Moisture	ASTM D 95	0.5% max.
Softening Point	ASTM D 3104	108-112°C.																																							
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Sulfur		0.70% max.																																							
Sodium		120 PPM max.																																							
Moisture	ASTM D 95	0.5% max.																																							
	Mesophase Q.I. would be 2.0% maximum with a particle size of 15 microns maximum (ASTM D 4616).																																								

Order Distribution:

D. N. Sweet - K-1750	W. W. Turner - K-1601
J. L. Schaum - K-1750	P. A. Stadel - U-PARC
Traffic Dept. - K-2050	L. F. Flaherty - K-1750
J. Oxford - Portland Plant	K. J. Regel - K-1600

KOPPERS COMPANY, INC.
TAR AND WOOD PRODUCTS SECTOR
1750 KOPPERS BLDG.
PITTSBURGH, PA. 15219

KOPPERS

Purchase Order

DIVISION PROCUREMENT COPY

SUMITOMO CORPORATION OF AMERICA
To One California Street
Suite 2300
San Francisco, CA 94111

Date November 19, 1992

Order No. OM3-1670-1

Sheet #1 (Sheet 2)

Continued on sheet

This order number must be shown on all shipments, invoices, correspondence, etc.

Koppers requests that Seller furnish the goods and/or services listed below, subject to the terms on the face and reverse side of this order.

Ship To:

KOPPERS INDUSTRIES, INC.
C/O PORT OF PORTLAND
Portland, Oregon
U.S.A.

Invoice Instructions:

SEND ORIGINAL AND DUPLICATE COPY OF INVOICE TO RECEIVING PLANT IN ENVELOPE MARKED "ATTENTION: ACCOUNTS PAYABLE". SHOW ABOVE ORDER NUMBER ON INVOICE. LIST EACH SHIPMENT SEPARATELY.

Requisition No.	Inquiry No.	Account No.
Quantity	Description	
	<u>COAL TAR PENCIL PITCH</u>	
	A pre-shipment sample shall be airmailed to Koppers Industries, Inc. - UPARC, 1005 William Pitt Way, Pittsburgh, PA 15238, Attn: Paul Stadel.	
Delivery:	To arrive Port of Portland about January 13-14, 1993 (Notification: Sailing date and ETA, 72 hour notice to W. W. Turner, 1601 Koppers Building, Pittsburgh, PA 15219 (Telex 402337))	
Documentation:	To be sent to W. W. Turner a. Copy of charter party. b. Bill of lading which will be issued by the charter party originator. c. Copy of invoice and analysis of material should be mailed when material is loaded into vessel.	
WWT:rs	KOPPERS IS ENTITLED TO ALL REMEDIES PURSUANT TO THE UNIFORM COMMERCIAL CODE.	

Order Distribution:

KOPPERS COMPANY, INC.
TAR AND WOOD PRODUCTS SECTOR
1750 KOPPERS BLDG.
PITTSBURGH, PA. 15219

KOPPERS

Purchase Order

DIVISION PROCUREMENT COPY

KAP (U.K.) Limited
To Cl-Post Office Box 23
Mayfield NSW 2304
Australia
Attention: John Crawford

Date December 11, 1991

Order No. OM2-1670-1

Sheet #1 (Sheet 1)

Continued on sheet

This order number must be shown on all shipments, invoices, correspondence, etc.

Koppers requests that Seller furnish the goods and/or services listed below, subject to the terms on the face and reverse side of this order.

Ship To:

KOPPERS INDUSTRIES, INC.
C/O PORT OF PORTLAND
Portland, Oregon
U.S.A.

Invoice Instructions:

SEND ORIGINAL AND DUPLICATE COPY OF INVOICE TO RECEIVING PLANT IN ENVELOPE MARKED "ATTENTION: ACCOUNTS PAYABLE". SHOW ABOVE ORDER NUMBER ON INVOICE. LIST EACH SHIPMENT SEPARATELY.

Requisition No.	Inquiry No.	Account No.																											
Quantity	Description																												
	<u>COAL TAR PENCIL PITCH</u>																												
	ANY REFERENCE TO "KOPPERS COMPANY, INC." ON THE FRONT OR REVERSE SIDE HEREOF, OR ON ANY ATTACHMENT, MUST BE CONSIDERED AS BEING "KOPPERS INDUSTRIES, INC."																												
	SPECIFIC ATTENTION MUST BE GIVEN TO ADDRESSES AND INSTRUCTIONS CONTAINED IN THE BODY OF THIS ORDER, NOT THOSE PREPRINTED.																												
Quantity:	12000 Metric Tons (not to exceed 6000 metric tons per shipment)																												
Price:	\$ [REDACTED] Short Ton, F.O.B. Vessel, Port of Portland																												
Source:	Anshan, China																												
Specification:	<table><tr><td>Softening Point</td><td>ASTM D 3104</td><td>108-113</td></tr><tr><td>Toluene Insoluble</td><td>ASTM D 3671</td><td>20% minimum</td></tr><tr><td>Quinoline Insoluble</td><td>ASTM D 2318</td><td>3 1/2 - 8 (prefer 5% minimum)</td></tr><tr><td>Coking Value</td><td>ASTM D 2416</td><td>52% minimum</td></tr><tr><td>Specific Gravity</td><td>ASTM D 71</td><td>1.30% minimum</td></tr><tr><td>Distillation to 360'C</td><td>ASTM D 2569</td><td>5% maximum (prefer 3% maximum)</td></tr><tr><td>Ash</td><td>ASTM D 2415</td><td>0.25% maximum</td></tr><tr><td>Sodium</td><td></td><td>250 PPM maximum</td></tr><tr><td>*Moisture</td><td></td><td>0.50% maximum</td></tr></table>		Softening Point	ASTM D 3104	108-113	Toluene Insoluble	ASTM D 3671	20% minimum	Quinoline Insoluble	ASTM D 2318	3 1/2 - 8 (prefer 5% minimum)	Coking Value	ASTM D 2416	52% minimum	Specific Gravity	ASTM D 71	1.30% minimum	Distillation to 360'C	ASTM D 2569	5% maximum (prefer 3% maximum)	Ash	ASTM D 2415	0.25% maximum	Sodium		250 PPM maximum	*Moisture		0.50% maximum
Softening Point	ASTM D 3104	108-113																											
Toluene Insoluble	ASTM D 3671	20% minimum																											
Quinoline Insoluble	ASTM D 2318	3 1/2 - 8 (prefer 5% minimum)																											
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Specific Gravity	ASTM D 71	1.30% minimum																											
Distillation to 360'C	ASTM D 2569	5% maximum (prefer 3% maximum)																											
Ash	ASTM D 2415	0.25% maximum																											
Sodium		250 PPM maximum																											
*Moisture		0.50% maximum																											
	All material must meet the above specification with a preferred QI level of 5% minimum. A pre-shipment sample shall be airmailed to Koppers Industries, Inc. - UPARC, 1005 William Pitt Way, Pittsburgh, PA 15238, Attn: Paul Stadel.																												
	*0.5% maximum does not infer an average moisture content																												

RECEIVED

Order Distribution:

D. N. Sweet - K-1750
J. L. Schaum - K-1750.
Traffic Dept. - K-2050
J. Oxford - Portland Plant
K. J. Regel - K-1601

DEC 23 1991
W. W. Turner - K-1601
Paul Stadel - U-PARC
John Crawford - KAP
KOPPERS INDS., INC. L. F. Flaherty - K-1750
PORTLAND, OR

KOPPERS COMPANY, INC.
TAR AND WOOD PRODUCTS SECTOR
1750 KOPPERS BLDG.
PITTSBURGH, PA. 15219

KOPPERS

Purchase Order

DIVISION PROCUREMENT COPY

KAP (U.K.) Limited
To Cl-Post Office Box 23
Mayfield NSW 2304
Australia
Attention: John Crawford

Date December 11, 1991
Order No. OM2-1670-1
Sheet #1 (Sheet 2)
Continued on sheet

Koppers requests that Seller furnish the goods and/or services listed below, subject to the terms on the face and reverse side of this order.

Ship To:
KOPPERS INDUSTRIES, INC.
C/O PORT OF PORTLAND
Portland, Oregon
U.S.A.

This order number must be shown on all shipments, invoices, correspondence, etc.

Invoice Instructions:

SEND ORIGINAL AND DUPLICATE COPY OF INVOICE TO RECEIVING PLANT IN ENVELOPE MARKED "ATTENTION: ACCOUNTS PAYABLE". SHOW ABOVE ORDER NUMBER ON INVOICE. LIST EACH SHIPMENT SEPARATELY.

Requisition No.		Inquiry No.		Account No.	
Quantity	Description				
	<u>COAL TAR PENCIL PITCH</u>				
Delivery:	One vessel to arrive Portland about February 15 and one vessel about mid-July. Will confirm the July vessel no later than May 15, 1992. (Notification: Sailing date and ETA, 72 hour notice to W. W. Turner, 1601 Koppers Building, Pittsburgh, PA 15219 (Telex 402337))				
Documentation:	To be sent to W. W. Turner a. Copy of charter party. b. Bill of lading which will be issued by the charter party originator. c. Copy of invoice and analysis of material should be mailed when material is loaded into vessel.				
WWT:rs	KOPPERS IS ENTITLED TO ALL REMEDIES PURSUANT TO THE UNIFORM COMMERCIAL CODE.				

Order Distribution:..

John Alfred
Fettend



CARBON MANAGEMENT INC.

Liberty Court, Suite 400, Box 7, 260 Highway 202 and 31, Flemington, NJ 08822

December 6, 1999

Copies to: Wayne Plovic - 1650
Jim Dietz - 1650
Drew Bachman - 1600
Chuck Kraynik - 1600
Don Evans - 1600
Amos Kamerer - Portland
File: Carbon Management

KOPPERS INDUSTRIES, INC.

Mr. Kevin J. Fitzgerald
436 Seventh Avenue
Pittsburgh, Pa 15219-1800

Dear Kevin:

Per our conversation last week, Reilly Industries is able to provide 1,000 MT of Anshan coal tar pitch for delivery in late January 2000. The pitch would be delivered by truck to your melter in Portland. Pricing for this shipment would be [REDACTED] delivered to Portland. The price increase is necessary to offset increased unloading costs at the Port of Longview as well as additional costs to reduce the dust generated in loading the cargo in China. If this proposal is acceptable to you please signify your acceptance by signing below and returning to me via fax at 908-806-9398. If you have any questions you can contact me at 908-806-9395.

Best Regards,

Stephen Brooks

In agreement,

12/7/99
Kevin J. Fitzgerald Date



DC Chemical Co., Ltd.

DC Chemical Co., Ltd.

4th Floor, Oriental Chemical BLDG.,
50 Sokong-Dong, Chung-Gu, Seoul Korea
TEL : 82 2 7279 500 FAX : 82 2 771 0745

ADVICE OF SHIPMENT

KOPPERS INC.

7540 NW SAINT HELENS ROAD,
PORTLAND, OREGON 97210-3663

TEL : 503-286-3681

FAX : 503-285-2831

ATTN : MR. AMOS KAMERER

DATE : APR. 15, 2003

WE ARE PLEASED TO INFORM YOU OF SHIPMENT DETAILS AS FOLLOWS ;


► INVOICE NO. : 0000076293 DATED APR. 07, 2003
► QUANTITY : 2,251.760MT OF LIQUID PITCH
► AMOUNT : US\$484,128.40
► ON BOARD DATE : APR. 06, 2003
► DUE DATE : MAY 20, 2003

THIS DUE AMOUNT SHOULD BE PAID ON/OR BEFORE MAY 20, 2003 TO THE BANK AND
ACCOUNT NUMBER INDICATED ON THE COMMERCIAL INVOICE ENCLOSED.

► VESSEL NAME : M/V "OSPREY ARROW 142"
► FROM POHANG KOREA, TO PORTLAND, OREGON, U.S.A.


THE FOLLOWING SHIPPING DOCUMENTS ARE ENCLOSED HERewith ;

1. COMMERCIAL INVOICE : 3 ORIGINALS
2. CUSTOMS INVOICE : 3 ORIGINALS


K. H. LEE

SENIOR MANAGER

DC CHEMICAL CO., LTD

1 set to Kunkle


COMMERCIAL INVOICE

HVE0000043174

1) Shipper/Exporter DAEWOO INTERNATIONAL CORPORATION C.P.O. BOX 2810 SEOUL, KOREA		8) No. & date of invoice 0000076293 APR. 07, 2003	
2) For Account & Risk of Messrs. KOPPERS INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.		9) No. & date of L/C	
3) Notify Party KOPPERS INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.		10) L/C issuing bank	
4) Port of Loading POHANG, KOREA		5) Final destination PORTLAND, OREGON, U.S.A.	
6) Vessel OSPREY ARROW V.142		7) Sailing on / about APR. 06, 2003	
11) Remarks: * THIS INVOICE AMOUNT SHOULD BE PAID ON OR BEFORE MAY 20, 2003			
12) Marks and numbers of PKGS	13) Description of goods	14) Quantity/Unit	15) Unit-price 16) Amount

- FOB POHANG, KOREA -

N/M IN BULK

LIQUID PITCH

* PURCHASE ORDER NO. OM3-1670-1
* PAYMENT INSTRUCTION
PLEASE PAY THIS INVOICE AMOUNT BY TELEGRAPHIC TRANSFER (T/T) TO
ACCOUNT NO. 141-86-000281 OF KOREA FIRST BANK NAMSAN BRANCH.
SEOUL, KOREA IN FAVOUR OF DAEWOO INTERNATIONAL CORPORATION.
CHEMICAL TEAM 5 AND PLEASE INDICATE YOUR REFERENCE NO.
IP 2003/01 WHEN YOU REMIT THIS INVOICE AMOUNT.

17) C.P.O 2810 SEOUL, KOREA
CABLE: DAEWOO SEOUL
TELEX: DAEWOO K23341/4, K24295
TELEPHONE: 759-2114

18) Signed by

DAEWOO
INTERNATIONAL CORP

COMMERCIAL INVOICE

HVE0000043174

1)Shipper/Exporter DAEWOO INTERNATIONAL CORPORATION C.P.O. BOX 2810 SEOUL, KOREA		8)No. & date of invoice 0000076293 APR. 07, 2003		
		9)No. & date of L/C		
2)For Account & Risk of Messrs. KOPPERS INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.		10)L/C issuing bank		
3)Notify Party KOPPERS INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.		11)Remarks: * THIS INVOICE AMOUNT SHOULD BE PAID ON OR BEFORE MAY 20, 2003		
4)Port of Loading POHANG, KOREA	5)Final destination PORTLAND, OREGON, U.S.A.			
6)Vessel OSPREY ARROW V.142	7)Sailing on / about APR. 06, 2003			
12)Marks and numbers of PKGS	13)Description of goods	14)Quantity/Unit	15)Unit-price	16)Amount

- FOB POHANG, KOREA -

N/M IN BULK

LIQUID PITCH

* PURCHASE ORDER NO. OM3-1670-1
* PAYMENT INSTRUCTION
PLEASE PAY THIS INVOICE AMOUNT BY TELEGRAPHIC TRANSFER(T/T) TO
ACCOUNT NO.141-86-000281 OF KOREA FIRST BANK NAMSAN BRANCH.
SEOUL, KOREA IN FAVOUR OF DAEWOO INTERNATIONAL CORPORATION.
CHEMICAL TEAM 5 AND PLEASE INDICATE YOUR REFERENCE NO.
IP 2003/01 WHEN YOU REMIT THIS INVOICE AMOUNT.

17) C.P.O 2810 SEOUL, KOREA
CABLE: DAEWOO SEOUL
TELEX: DAEWOO K23341/4, K24295
TELEPHONE: 759-2114

18) Signed by


DAEWOO
INTERNATIONAL CORP

SPECIAL CUSTOMS INVOICE

(Use separate invoice for purchased and non-purchased goods.)

1. SELLER DAEWOO INTERNATIONAL CORPORATION C.P.O. BOX 2810 SEOUL, KOREA		2. DOCUMENT NR.*	3. INVOICE NR. AND DATE* 0000076293
5. CONSIGNEE KOPPERS INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.		4. REFERENCES* PURCHASE ORDER NO. 0M3-1670-1	
8. NOTIFY PARTY* KOPPERS INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.		6. BUYER (if other than consignee) KOPPERS INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.	
10. ADDITIONAL TRANSPORTATION INFORMATION* FROM : POHANG, KOREA TO : PORTLAND, OREGON, U.S.A. CARRIER : OSPREY ARROW V.142 SAILING ON : APR. 06, 2003		7. ORIGIN OF GOODS THE REPUBLIC OF KOREA	
		9. TERMS OF SALE, PAYMENT, AND DISCOUNT - FOB POHANG, KOREA - T/T REMITTANCE 45 DAYS FROM B/L DATE	
		11. CURRENCY USED	12. EXCH. RATE (if fixed or agreed)
		13. DATE ORDER ACCEPTED	

14. MARKS AND NUMBERS ON SHIPPING PACKAGES	15. NUMBER OF PACKAGES	16. FULL DESCRIPTION OF GOODS	17. QUANTITY	UNIT PRICE		20. INVOICE TOTALS
				18. HOME MARKET	19. INVOICE	
N/M IN BULK		LIQUID PITCH				
////////////////////////////////////						

21. <input type="checkbox"/> If the production of these goods involved furnishing goods or services to the seller (e.g., assists such as dies, molds, tools, engineering work) and the value is not included in the invoice price, check box (21) and explain below.		22. PACKING COSTS
27. DECLARATION OF SELLER/SHIPPER (OR AGENT)		23. OCEAN OR INTERNATIONAL FREIGHT
I declare:		24. DOMESTIC FREIGHT CHARGES
(A) <input type="checkbox"/> If there are any rebates, drawbacks or bounties allowed upon the exportation of goods, I have checked box (A) and itemized separately below.	(B) <input type="checkbox"/> If the goods were not sold or agreed to be sold, I have checked box (B) and have indicated in column 19 the price I would be willing to receive.	25. INSURANCE COSTS
I further declare that there is no other invoice differing from this one (unless otherwise described below) and that all statements contained in this invoice and declaration are true and correct.		26. OTHER COSTS (Specify Below)
(C) SIGNATURE OF SELLER/SHIPPER (OR AGENT): DAEWOO INTERNATIONAL CORP.		
28. THIS SPACE FOR CONTINUING ANSWERS		

Authorized Signature

SPECIAL CUSTOMS INVOICE

(Use separate invoice for purchased and non-purchased goods.)

Form Approved
O.M.B. No. 48-R0342

1. SELLER DAEWOO INTERNATIONAL CORPORATION C.P.O. BOX 2810 SEOUL, KOREA		2. DOCUMENT NR.*	3. INVOICE NR. AND DATE* 0000076293	
5. CONSIGNEE KOPPERS INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.		4. REFERENCES* PURCHASE ORDER NO. OM3-1670-1		
8. NOTIFY PARTY* KOPPERS INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.		6. BUYER (if other than consignee) KOPPERS INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.		
10. ADDITIONAL TRANSPORTATION INFORMATION* FROM : POHANG, KOREA TO : PORTLAND, OREGON, U.S.A. CARRIER : OSPREY ARROW V.142 SAILING ON : APR. 06, 2003		7. ORIGIN OF GOODS THE REPUBLIC OF KOREA		
		9. TERMS OF SALE, PAYMENT, AND DISCOUNT - FOB POHANG, KOREA - T/T REMITTANCE 45 DAYS FROM B/L DATE		
		11. CURRENCY USED	12. EXCH. RATE (if used or agreed)	13. DATE ORDER ACCEPTED

14. MARKS AND NUMBERS ON SHIPPING PACKAGES	15. NUMBER OF PACKAGES	16. FULL DESCRIPTION OF GOODS	17. QUANTITY	UNIT PRICE		20. INVOICE TOTALS
				18. HOME MARKET	19. INVOICE	
N/M IN BULK		LIQUID PITCH				
////////////////////////////////////						

21. <input type="checkbox"/> If the production of these goods involved furnishing goods or services to the seller (e.g., assists such as dies, molds, tools, engineering work) and the value is not included in the invoice price, check box (21) and explain below.		22. PACKING COSTS
27. DECLARATION OF SELLER/SHIPPER (OR AGENT) I declare: (A) <input type="checkbox"/> If there are any rebates, drawbacks or bounties allowed upon the exportation of goods, I have checked box (A) and itemized separately below. (B) <input type="checkbox"/> If the goods were not sold or agreed to be sold, I have checked box (B) and have indicated in column 19 the price I would be willing to receive. I further declare that there is no other invoice differing from this one (unless otherwise described below) and that all statements contained in this invoice and declaration are true and correct.		23. OCEAN OR INTERNATIONAL FREIGHT
(C) SIGNATURE OF SELLER/SHIPPER (OR AGENT): DAEWOO INTERNATIONAL CORP.		24. DOMESTIC FREIGHT CHARGES
		25. INSURANCE COSTS
28. THIS SPACE FOR CONTINUING ANSWERS		26. OTHER COSTS (Specify Below)

Authorized Signature

ADVICE OF SHIPMENT

KOPPERS INC.
7540 NW SAINT HELENS ROAD,
PORTLAND, OREGON 97210-3663

TEL : 503-286-3681

FAX : 503-285-2831

ATTN : MR. AMOS KAMERER

DATE : APR. 11, 2003

WE ARE PLEASED TO INFORM YOU OF SHIPMENT DETAILS AS FOLLOWS ;

► INVOICE NO. : 0000076293 DATED APR. 07, 2003
► QUANTITY : 2,251.760MT OF LIQUID PITCH
► AMOUNT : XXXXXXXXXX
► ON BOARD DATE : APR. 06, 2003
► DUE DATE : MAY 20, 2003

THIS DUE AMOUNT SHOULD BE PAID ON/OR BEFORE MAY 20, 2003 TO THE BANK AND
ACCOUNT NUMBER INDICATED ON THE COMMERCIAL INVOICE ENCLOSED.

► VESSEL NAME : M/V "OSPREY ARROW 142"
► FROM POHANG KOREA, TO PORTLAND, OREGON, U.S.A.

THE FOLLOWING SHIPPING DOCUMENTS ARE ENCLOSED HEREWITH ;

1. BILL OF LADING	: 2 ORIGINALS + 2COPIES
2. COMMERCIAL INVOICE	: 3 ORIGINALS
3. CUSTOMS INVOICE	: 3 ORIGINALS
4. CERTIFICATE OF ORIGIN	: 1 ORIGINAL + 1COPY
5. CERTIFICATE OF ANALYSIS	: 3 ORIGINALS
6. CERTIFICATE OF WEIGHT	: 3 ORIGINALS
7. CERTIFICATE OF VESSEL CLEANLINESS	: 3 ORIGINALS



K. H. LEE

SENIOR MANAGER

DC CHEMICAL CO., LTD

1 set to funk

CODE NAME: "CHEMTANKWAYBILL 85"

Shipper

DAEWOO INTERNATIONAL CORPORATION
C.P.O. BOX 2810 SEOUL, KOREA

NON-NEGOTIABLE
CHEMICAL TANK
WAYBILL

CTWB No.
OSP142KPO02W

Reference No.

Consignee (not to order)

KOPPERS INC.
C/O PORT OF PORTLAND
PORTLAND OREGON, U.S.A.

Notify address

KOPPERS INC.
C/O PORT OF PORTLAND
PORTLAND OREGON, U.S.A.

Vessel
OSPNEY ARROW V.142

Port of loading
POHANG, KOREA

Port of discharge
PORTLAND, OREGON, U.S.A

Description of cargo

Weight (in metric tons)

N/M IN BULK

LIQUID PITCH

2,251.760 M/T

* PURCHASE ORDER NO. OM3-1670-1

" FREIGHT PAYABLE AS PER CHARTER PARTY "

ON BOARD DATE :

APR.06, 2003

Particulars declared by the Shipper

<p>Issued pursuant to Charter Party indicated hereunder</p>	<p>RECEIVED on board the cargo specified above, according to Shipper's declaration in apparent good order and condition – unless otherwise stated herein – weight, volume, quality and value unknown, for delivery at the port of discharge or so near thereto as the Vessel may safely get, always afloat.</p> <p>The cargo shipped under this Waybill will be delivered to the Party named as Consignee or its authorised agent, on production of proof of identity without any documentary formalities. The Carrier to exercise due care ensuring that delivery is made to the proper party. However, in case of incorrect delivery, no responsibility will be accepted unless due to fault or neglect on the part of the Carrier.</p> <p>FOR CONDITIONS OF CARRIAGE SEE OVERLEAF.</p>	
<p>Charter Party (Code name, place and date of issue)</p>	<p>Freight payable at</p> <p>Place and date of issue SEOUL, KOREA – APR.07, 2003</p>	
<p>Freight payable in accordance therewith.</p>	<p>Signature</p> <p>BARWIL HYOP WOON AGENCIES LTD. AS AGENTS FOR AND ON BEHALF OF MASTER/OWNER OF SAID VESSEL</p>	

Printed and sold by
Fr. G. Knudtzons Bogtrykkeri A/S, 61 Vallengsbækvej, DK-2625 Vallengsbæk.
Telefax +45 43 55 07 08 by authority of
The Baltic and International Maritime Council, (BIMCO), Copenhagen

COMMERCIAL INVOICE

HVE0000043174

1)Shipper/Exporter DAEWOO INTERNATIONAL CORPORATION C.P.O. BOX 2810 SEOUL, KOREA		8)No. & date of invoice 0000076293 APR. 07, 2003		
		9)No. & date of L/C		
2)For Account & Risk of Messrs. KOPPERS INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.		10)L/C issuing bank		
3)Notify Party KOPPERS INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.		11)Remarks: * THIS INVOICE AMOUNT SHOULD BE PAID ON OR BEFORE MAY 20, 2003		
4)Port of Loading POHANG, KOREA	5)Final destination PORTLAND, OREGON, U.S.A.			
6)Vessel OSPREY ARROW V.142	7)Sailing on / about APR. 06, 2003			
12)Marks and numbers of PKGS	13)Description of goods	14)Quantity/Unit	15)Unit-price	16)Amount

- FOB POHANG, KOREA -

N/M IN BULK

LIQUID PITCH
2,251.760 M/T

* PURCHASE ORDER NO. OM3-1670-1

* PAYMENT INSTRUCTION

PLEASE PAY THIS INVOICE AMOUNT BY TELEGRAPHIC TRANSFER(T/T) TO
ACCOUNT NO.141-86-000281 OF KOREA FIRST BANK NAMSAN BRANCH.
SEOUL, KOREA IN FAVOUR OF DAEWOO INTERNATIONAL CORPORATION.
CHEMICAL TEAM 5 AND PLEASE INDICATE YOUR REFERENCE NO.
IP 2003/01 WHEN YOU REMIT THIS INVOICE AMOUNT.

17) C.P.O 2810 SEOUL, KOREA
CABLE: DAEWOO SEOUL
TELEX: DAEWOO K23341/4, K24295
TELEPHONE: 759-2114

18) Signed by


DAEWOO
INTERNATIONAL CORP

SPECIAL CUSTOMS INVOICE
(Use separate invoice for purchased and non-purchased goods.)

Form Approved.
O.M.B. No. 48-RO342

1. SELLER DAEWOO INTERNATIONAL CORPORATION C.P.O. BOX 2810 SEOUL, KOREA		2. DOCUMENT NR.*	3. INVOICE NR. AND DATE* 0000076293	
		4. REFERENCES* PURCHASE ORDER NO. 0M3-1670-1		
5. CONSIGNEE KOPPERS INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.		6. BUYER (if other than consignee) KOPPERS INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.		
		7. ORIGIN OF GOODS THE REPUBLIC OF KOREA		
8. NOTIFY PARTY* KOPPERS INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.		9. TERMS OF SALE, PAYMENT, AND DISCOUNT - FOB POHANG, KOREA - T/T REMITTANCE 45 DAYS FROM B/L DATE		
10. ADDITIONAL TRANSPORTATION INFORMATION*		11. CURRENCY USED		
FROM : POHANG, KOREA TO : PORTLAND, OREGON, U.S.A. CARRIER : OSPREY ARROW V.142 SAILING ON : APR. 06, 2003		12. EXCH. RATE (if fixed or agreed)		
		13. DATE ORDER ACCEPTED		

14. MARKS AND NUMBERS ON SHIPPING PACKAGES	15. NUMBER OF PACKAGES	16. FULL DESCRIPTION OF GOODS	17. QUANTITY	UNIT PRICE		20. INVOICE TOTALS
				18. HOME MARKET	19. INVOICE	
N/M IN BULK //////////		LIQUID PITCH //////////	2,251.760 M/T	USD [REDACTED]	USD [REDACTED]	

21. <input type="checkbox"/> If the production of these goods involved furnishing goods or services to the seller (e.g., assists such as dies, molds, tools, engineering work) and the value is not included in the invoice price, check box (21) and explain below.		22. PACKING COSTS
27. DECLARATION OF SELLER/SHIPPER (OR AGENT)		23. OCEAN OR INTERNATIONAL FREIGHT
I declare:		24. DOMESTIC FREIGHT CHARGES
(A) <input type="checkbox"/> If there are any rebates, drawbacks or bounties allowed upon the exportation of goods, I have checked box (A) and itemized separately below.	(B) <input type="checkbox"/> If the goods were not sold or agreed to be sold, I have checked box (B) and have indicated in column 19 the price I would be willing to receive.	25. INSURANCE COSTS
I further declare that there is no other invoice differing from this one (unless otherwise described below) and that all statements contained in this invoice and declaration are true and correct.		26. OTHER COSTS (Specify Below)
(C) SIGNATURE OF SELLER/SHIPPER (OR AGENT): DAEWOO INTERNATIONAL CORP.		

28. THIS SPACE FOR CONTINUING ANSWERS

Authorized Signature

THIS FORM OF INVOICE REQUIRED GENERALLY IF RATE OF DUTY BASED UPON OR REGULATED BY VALUE OF GOODS AND PURCHASE PRICE OR VALUE OF SHIPMENT EXCEEDS \$500. OTHERWISE USE COMMERCIAL INVOICE.

*Not necessary for U.S. Customs purposes.

Customs Form 5515 (12-20-76)

ADVICE OF SHIPMENT

KOPPERS INDUSTRIES, INC.
7540 NW SAINT HELENS ROAD,
PORTLAND, OREGON 97210-3663

TEL : 503-286-3681

FAX : 503-285-2831

ATTN : MR. AMOS S. KAMERER

DATE : DEC. 06, 2000

WE ARE PLEASED TO INFORM YOU OF SHIPMENT DETAILS AS FOLLOWS ;

► INVOICE NO. : 0000020444 DATED DEC. 03, 2000
► QUANTITY : 248.376MT OF LIQUID PITCH
► AMOUNT : XXXXXXXXXX
► ON BOARD DATE : DEC. 03, 2000
► DUE DATE : JAN. 17, 2001

THIS DUE AMOUNT SHOULD BE PAID ON/OR BEFORE JAN. 17, 2001 TO THE BANK AND
ACCOUNT NUMBER INDICATED ON THE COMMERCIAL INVOICE ENCLOSED.

► VESSEL NAME : M/V "OSPREY ARROW"
► FROM KWANGYANG KOREA, TO PORTLAND, OREGON, U.S.A.

THE FOLLOWING SHIPPING DOCUMENTS ARE ENCLOSED HERewith ;

1. BILL OF LADING	: 2 ORIGINALS + 2 COPIES
2. COMMERCIAL INVOICE	: 3 ORIGINALS
3. CUSTOMS INVOICE	: 3 ORIGINALS
4. CERTIFICATE OF ORIGIN	: 1 ORIGINAL + 1 COPY
5. CERTIFICATE OF ANALYSIS	: 3 ORIGINALS
6. CERTIFICATE OF WEIGHT	: 3 ORIGINALS
7. CERTIFICATE OF VESSEL CLEANLINESS	: 3 ORIGINALS

BEST REGARDS,



J. W. LEE
GENERAL MANAGER
KOREA STEEL CHEMICAL CO., LTD



We acquired ISO 9002 and ISO 14001 certification

CODE NAME: "CHEMTANKWAYBILL 85"

Shipper

DAEWOO CORPORATION
C.P.O. BOX 2810 SEOUL KOREA

NON-NEGOTIABLE
CHEMICAL TANK
WAYBILL

CTWB No.

1

Reference No.

Consignee (not to order)

TO ORDER

Notify address

KOPPERS INDUSTRIES, INC.
C/O PORT OF PORTLAND
PORTLAND, OREGON, U.S.A

SECOND ORIGINAL

Vessel

OSPREY ARROW V.128

Port of loading

KWANGYANG, KOREA

Port of discharge

PORTLAND, OREGON, U.S.A

Description of cargo

Weight (in metric tons)

248.376 M/T

N/M IN BULK

LIQUID PITCH

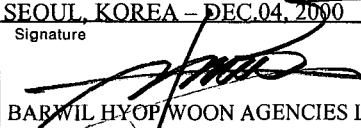
* PURCHASE ORDER NO. : OM0-1670-2

" FREIGHT PAYABLE AS PER CHARTER PARTY "

ON BOARD DATE :

DEC.03, 2000

Particulars declared by the Shipper

Issued pursuant to Charter Party indicated hereunder	RECEIVED on board the cargo specified above, according to Shipper's declaration in apparent good order and condition - unless otherwise stated herein - weight, volume, quality and value unknown, for delivery at the port of discharge or so near thereto as the Vessel may safely get, always afloat. The cargo shipped under this Waybill will be delivered to the Party named as Consignee or its authorised agent, on production of proof of identity without any documentary formalities. The Carrier to exercise due care ensuring that delivery is made to the proper party. However, in case of incorrect delivery, no responsibility will be accepted unless due to fault or neglect on the part of the Carrier. FOR CONDITIONS OF CARRIAGE SEE OVERLEAF.	
Charter Party (Code name, place and date of issue)	Freight payable at	Place and date of issue
Freight payable in accordance therewith.		SEOUL, KOREA - DEC.04, 2000
		Signature  BARWIL HYOP WOON AGENCIES LTD. AS AGENTS FOR AND ON BEHALF OF MASTER/OWNER OF SAID VESSEL

Printed and sold by
Fr. G. Knudtzons Bogtrykkeri A/S, 55 Toldbodgade, DK-1253 Copenhagen K,
by authority of The Baltic and International Maritime Council (BIMCO),
Copenhagen, Copyright.

**NON-NEGOTIABLE
CHEMICAL TANK
WAYBILL**

CODE NAME: "CHEMTANKWAYBILL 85"

RECOMMENDED

by
BIMCO (The Baltic and International Maritime Council)
EPCA (The European Petrochemical Association)
ECCTO (European Coastal Chemical Tanker Owners)
INTERTANKO (International Association of
Independent Tanker Owners)

Conditions of Carriage.

(1) This Waybill, which is not a document of title to the cargo, is subject to the terms and conditions, liberties and exceptions of the Voyage Charter Party dated as overleaf and to the provisions set out below.

(2) Paramount Clause

(a) This Waybill is not a bill of lading and no bill of lading will be issued. However, it is agreed that the Hague Rules contained in the International Convention for the Unification of certain rules relating to Bills of Lading, dated Brussels the 25th August 1924 as enacted in the country of shipment shall apply to this Waybill. When no such enactment is in force in the country of shipment, the corresponding legislation of the country of destination shall apply, but in respect of shipments to which no such enactments are compulsorily applicable, the terms of the said Convention shall apply in exactly the same way.

(b) *Trades where Hague-Visby Rules apply.*

In trades where the International Brussels Convention 1924 as amended by the Protocol signed at Brussels on February 23rd 1968 – the Hague-Visby Rules – apply compulsorily, the provisions of the respective legislation shall also apply to this Waybill.

(c) The Carrier shall in no case be responsible for loss of or damage to cargo howsoever arising prior to loading into and after discharge from the Vessel or while the goods are in the charge of another Carrier nor in respect of deck cargo.

(d) It is agreed that whenever the Brussels Convention and the Brussels Protocol or statutes incorporating same use the words "Bill of Lading" they shall be read and interpreted as meaning "Waybill".

(3) General Average

General Average shall be adjusted, stated and settled according to York-Antwerp Rules 1974 or any modification thereof at the place agreed in the Charter Party.

Cargo's contribution to General Average shall be paid to the Carrier even when such average is the result of a fault, neglect or error of the Master, Pilot or Crew. The Charterers, Shippers and Consignees expressly renounce the Netherlands Commercial Code, Art. 700, and the Belgium Commercial Code, Part II, Art. 148.

If the adjustment of General Average or the liability for any collision in which the Vessel is involved while performing the carriage under this contract falls to be determined in accordance with the law and practice of the United States of America, the following clauses shall apply:

New Jason Clause.

In the event of accident, danger, damage or disaster before or after the commencement of the voyage, resulting from any cause whatsoever, whether due to negligence or not, for which or for the consequence of which, the Carrier is not responsible, by Statute, contract or otherwise, the cargo, shippers, consignees or owners of the cargo shall contribute with the Carrier in general average to the payment of any sacrifices, losses or expenses of a general average nature that may be made or incurred and shall pay salvage and special charges incurred in respect of the cargo.

If a salving vessel is owned or operated by the Carrier, salvage shall be paid for as fully as if the said salving vessel or vessels belonged to strangers. Such deposit as the Carrier, or his agent, may deem sufficient to cover the estimated contribution of the cargo and any salvage and special charges thereon shall, if required, be made by the cargo, shippers, consignees or owners of the cargo to the Carrier before delivery.

Both-to-Blame Collision Clause.

If the Vessel comes into collision with another vessel as a result of the negligence of the other vessel and any act, neglect or default of the Master, Mariner, Pilot or the Servants of the Carrier in the navigation or in the management of the Vessel, the owners of the cargo carried hereunder will indemnify the Carrier against all loss or liability to the other or non-carrying vessel or her owners in so far as such loss or liability represents loss of, or damage to, or any claim whatsoever of the owners of the said cargo, paid or payable by the other or non-carrying vessel or her owners to the owners of the said cargo and set-off, recouped or recovered by the other or non-carrying vessel or her owners as part of their claim against the carrying vessel or the Carrier.

The foregoing provisions shall also apply where the owners, operators or those in charge of any vessel or vessels or objects other than, or in addition to, the colliding vessels or objects are at fault in respect of a collision or contact.

For particulars of cargo, freight, destination, etc., see overleaf.

Authorized Signature



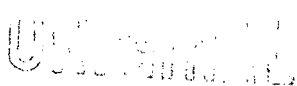
DAEWOO CORPORATION

CONFIDENTIAL

Koppers003935

COMMERCIAL INVOICE

HVC0000012336

1)Shipper/Exporter DAEWOO CORPORATION C.P.O. BOX 2810 SEOUL KOREA		8)No. & date of invoice 0000020444 DEC. 03, 2000	
		9)No. & date of L/C	
2)For Account & Risk of Messrs. KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A		10)L/C issuing bank	
3)Notify Party KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A		11)Remarks: * P/O NO.OM0-1670-2 DATED JAN. 07, 2000 - THIS INVOICE AMOUNT SHOULD BE PAID ON OR BEFORE JAN. 17, 2001	
4)Port of Loading KWANGYANG, KOREA	5)Final destination PORTLAND, OREGON, U.S.A		
6)Carrier OSPREY ARROW	7)Sailing on / about DEC. 03, 2000		
12)Marks and numbers of PKGS	13)Description of goods	14)Quantity/Unit	15)Unit-price 16)Amount

N/M IN BULK

FOB KWANGYANG KOREA

LIQUID PITCH

248.376 M/T

USD

* INVOICE NO. : 0000020444 DATED DEC. 03, 2000

* PAYMENT INSTRUCTION

PLEASE PAY THIS INVOICE AMOUNT BY TELEGRAPHIC TRANSFER (T/T)
TO ACCOUNT NO. 361-81-013944 OF SHINHAN BANK, SEODAEMUN BRANCH,
SEOUL, KOREA IN FAVOUR OF KOREA STEEL CHEMICAL CO., LTD. AND
PLEASE INDICATE OUR REFERENCE NO. 0000020444 WHEN YOU REMIT
THIS INVOICE AMOUNT.

////////////////////////////////////

17) C.P.O 2810 SEOUL, KOREA
CABLE: DAEWOO SEOUL
TELEX: DAEWOO K23341/4,K24295
TELEPHONE: 759-2114

18) Signed by



DAEWOO
CORPORATION

SPECIAL CUSTOMS INVOICE
(Use separate invoice for purchased and non-purchased goods.)

Form Approved
O. M. B. No. 48-R0342

1. SELLER DAEWOO CORPORATION C.P.O. BOX 2810 SEOUL KOREA		2. DOCUMENT NR. *	3. INVOICE NR. AND DATE * 0000020444	
		4. REFERENCES * DEC. 03, 2000		
5. CONSIGNEE TO ORDER		6. BUYER (if other than consignee) KOPPERS INDUSTRIES INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.		
		7. ORIGIN OF GOODS THE REPUBLIC OF KOREA		
8. NOTIFY PARTY * KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.		9. TERMS OF SALE, PAYMENT, AND DISCOUNT - F.O.B. KWANGYANG, KOREA * T/T REMITTANCE 45 DAYS AFTER B/L DATE		
10. ADDITIONAL TRANSPORTATION INFORMATION * FROM : KWANGYANG, KOREA TO : PORTLAND, OREGON, U.S.A CARRIER : OSPREY ARROW SAILING ON : DEC. 03, 2000		11. CURRENCY USED		
		12. EXCH. RATE (if fixed or agreed)		13. DATE ORDER ACCEPTED

14. MARKS AND NUMBERS ON SHIPPING PACKAGES	15. NUMBER OF PACKAGES	16. FULL DESCRIPTION OF GOODS	17. QUANTITY	18. UNIT PRICE		20. INVOICE TOTALS
				18. HOME MARKET	19. INVOICE	
N/M IN BULK		LIQUID PITCH - PURCHASE ORDER NO. : OMO-1670-2	248.376M/Ts			
////////////////////////////////////						

21. <input type="checkbox"/> If the production of these goods involved furnishing goods or services to the seller (e.g. assists such as dies, molds, tools, engineering work) and the value is not included in the invoice price, check box (21) and explain below.		22. PACKING COSTS	
27. DECLARATION OF SELLER/SHIPPER (OR AGENT)		23. OCEAN OR INTERNATIONAL FREIGHT	
I declare: (A) <input type="checkbox"/> If there are any rebates, drawbacks or bounties allowed upon the exportation of goods, I have checked box (A) and itemized separately below. I further declare that there is no other invoice differing from this one (unless otherwise described below) and that all statements contained in this invoice and declaration are true and correct.		24. DOMESTIC FREIGHT CHARGES	
(B) <input type="checkbox"/> If the goods were not sold or agreed to be sold, I have checked box (B) and have indicated in column 9 the price I would be willing to receive.		25. INSURANCE COSTS	
(C) SIGNATURE OF SELLER/SHIPPER (OR AGENT): DAEWOO CORPORATION		26. OTHER COSTS (Specify Below)	

23. THIS SPACE FOR CONTINUING ANSWERS

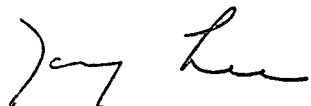
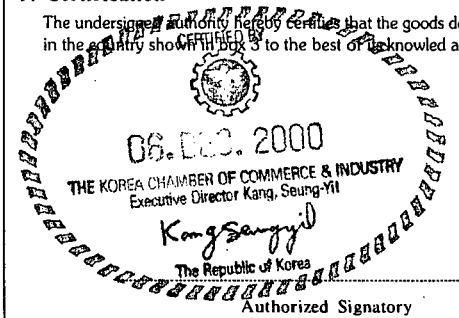


Authorized Signature

THIS FORM OF INVOICE REQUIRED GENERALLY IF RATE OF DUTY BASED UPON OR REGULATED BY VALUE OF GOODS AND PURCHASE PRICE OR VALUE OF SHIPMENT EXCEEDS \$500 OTHERWISE USE COMMERCIAL INVOICE

* Not necessary for U. S. Customs purposes.

Customs Form 5515 (12-20-76)

1. Exporter (Name, address, country) DAEWOO CORPORATION C.P.O. BOX 2810 SEOUL KOREA		<div style="text-align: right;">ORIGINAL</div> <div style="text-align: center;"> CERTIFICATE OF ORIGIN issued by THE KOREA CHAMBER OF COMMERCE & INDUSTRY Seoul, Republic of Korea </div>	
2. Consignee (Name, address, country) TO ORDER		3. Country of Origin The Republic of Korea	
4. Transport details * FROM : KWANGYANG, KOREA * TO : PORTLAND, OREGON, U.S.A * SAILING DATE: DEC. 03, 2000 * VESSEL NAME : OSPREY ARROW		5. Remarks	
6. Marks & numbers; number and kind of packages; description of goods N/M IN BULK LIQUID PITCH * PURCHASE ORDER NO. : OM0-1670-2 * INVOICE NO. : 0000020444 DATED DEC. 03, 2000		7. Quantity 248.376 M/T (QUANTITY)	
8. Declaration by the Exporter The undersigned, as an authorized signatory, hereby declares that the above-mentioned goods were produced or manufactured in the country shown in box 3. <div style="text-align: center;"> DAEWOO CORPORATION  _____ Authorized Signature </div> (Name) TAE YONG LEE		9. Certification The undersigned authority hereby certifies that the goods described above originate in the country shown in box 3 to the best of its knowledge and belief. <div style="text-align: center;">  _____ Authorized Signatory </div> Certificate No. 398817	

KCCI Form-A

ADVICE OF SHIPMENT

KOPPERS INDUSTRIES, INC.
7540 NW SAINT HELENS ROAD,
PORTLAND, OREGON 97210-3663

TEL : 503-286-3681

FAX : 503-285-2831

ATTN : MR. AMOS S. KAMERER

DATE : OCT. 12, 2000

WE ARE PLEASED TO INFORM YOU OF SHIPMENT DETAILS AS FOLLOWS ;

► INVOICE NO. : 0000016835 DATED OCT. 09, 2000
► QUANTITY : 2,474.917MT OF LIQUID PITCH
► AMOUNT : XXXXXXXXXX
► ON BOARD DATE : OCT. 09, 2000
► DUE DATE : NOV. 23, 2000

THIS DUE AMOUNT SHOULD BE PAID ON/OR BEFORE NOV. 23, 2000 TO THE BANK AND
ACCOUNT NUMBER INDICATED ON THE COMMERCIAL INVOICE ENCLOSED.

► VESSEL NAME : M/V "OSPREY ARROW"
► FROM KWANGYANG KOREA, TO PORTLAND, OREGON, U.S.A.

THE FOLLOWING SHIPPING DOCUMENTS ARE ENCLOSED HERewith ;

1. BILL OF LADING	: 2 ORIGINALS + 2 COPIES
2. COMMERCIAL INVOICE	: 3 ORIGINALS
3. CUSTOMS INVOICE	: 3 ORIGINALS
4. CERTIFICATE OF ORIGIN	: 1 ORIGINAL + 1 COPY
5. CERTIFICATE OF ANALYSIS	: 3 ORIGINALS
6. CERTIFICATE OF WEIGHT	: 3 ORIGINALS
7. CERTIFICATE OF VESSEL CLEANLINESS	: 3 ORIGINALS

BEST REGARDS,



J. W. LEE
GENERAL MANAGER
KOREA STEEL CHEMICAL CO., LTD



We acquired ISO 9002 and ISO 14001 certification

**NON-NEGOTIABLE
CHEMICAL TANK
WAYBILL**

CODE NAME: "CHEMTANKWAYBILL 85"

RECOMMENDED

by
BIMCO (The Baltic and International Maritime Council)
EPCA (The European Petrochemical Association)
ECCTO (European Coastal Chemical Tanker Owners)
INTERTANKO (International Association of
Independent Tanker Owners)

Conditions of Carriage.

(1) This Waybill, which is not a document of title to the cargo, is subject to the terms and conditions, liberties and exceptions of the Voyage Charter Party dated as overleaf and to the provisions set out below.

(2) Paramount Clause

(a) This Waybill is not a bill of lading and no bill of lading will be issued. However, it is agreed that the Hague Rules contained in the International Convention for the Unification of certain rules relating to Bills of Lading, dated Brussels the 25th August 1924 as enacted in the country of shipment shall apply to this Waybill. When no such enactment is in force in the country of shipment, the corresponding legislation of the country of destination shall apply, but in respect of shipments to which no such enactments are compulsorily applicable, the terms of the said Convention shall apply in exactly the same way.

(b) Trades where Hague-Visby Rules apply.

In trades where the International Brussels Convention 1924 as amended by the Protocol signed at Brussels on February 23rd 1968 – the Hague-Visby Rules – apply compulsorily, the provisions of the respective legislation shall also apply to this Waybill.

(c) The Carrier shall in no case be responsible for loss of or damage to cargo howsoever arising prior to loading into and after discharge from the Vessel or while the goods are in the charge of another Carrier nor in respect of deck cargo.

(d) It is agreed that whenever the Brussels Convention and the Brussels Protocol or statutes incorporating same use the words "Bill of Lading" they shall be read and interpreted as meaning "Waybill".

(3) General Average

General Average shall be adjusted, stated and settled according to York-Antwerp Rules 1974 or any modification thereof at the place agreed in the Charter Party.

Cargo's contribution to General Average shall be paid to the Carrier even when such average is the result of a fault, neglect or error of the Master, Pilot or Crew. The Charterers, Shippers and Consignees expressly renounce the Netherlands Commercial Code, Art. 700, and the Belgium Commercial Code, Part II, Art. 148.

If the adjustment of General Average or the liability for any collision in which the Vessel is involved while performing the carriage under this contract falls to be determined in accordance with the law and practice of the United States of America, the following clauses shall apply:

New Jason Clause.

In the event of accident, danger, damage or disaster before or after the commencement of the voyage, resulting from any cause whatsoever, whether due to negligence or not, for which or for the consequence of which, the Carrier is not responsible, by Statute, contract or otherwise, the cargo, shippers, consignees or owners of the cargo shall contribute with the Carrier in general average to the payment of any sacrifices, losses or expenses of a general average nature that may be made or incurred and shall pay salvage and special charges incurred in respect of the cargo. If a salving vessel is owned or operated by the Carrier, salvage shall be paid for as fully as if the said salving vessel or vessels belonged to strangers. Such deposit as the Carrier, or his agent, may deem sufficient to cover the estimated contribution of the cargo and any salvage and special charges thereon shall, if required, be made by the cargo, shippers, consignees or owners of the cargo to the Carrier before delivery.

Both-to-Blame Collision Clause.

If the Vessel comes into collision with another vessel as a result of the negligence of the other vessel and any act, neglect or default of the Master, Mariner, Pilot or the Servants of the Carrier in the navigation or in the management of the Vessel, the owners of the cargo carried hereunder will indemnify the Carrier against all loss or liability to the other or non-carrying vessel or her owners in so far as such loss or liability represents loss of, or damage to, or any claim whatsoever of the owners of the said cargo, paid or payable by the other or non-carrying vessel or her owners to the owners of the said cargo and set-off, recouped or recovered by the other or non-carrying vessel or her owners as part of their claim against the carrying vessel or the Carrier.

The foregoing provisions shall also apply where the owners, operators or those in charge of any vessel or vessels or objects other than, or in addition to, the colliding vessels or objects are at fault in respect of a collision or contact.

For particulars of cargo, freight, destination, etc., see overleaf.

Authorized Signature

DAEWOO CORPORATION

CONFIDENTIAL

Koppers003941

CODE NAME: "CHEMTANKWAYBILL 85"

Shipper

DAEWOO CORPORATION
C.P.O. BOX 2810 SEOUL KOREANON-NEGOTIABLE
CHEMICAL TANK
WAYBILL

CTWB No.

2

Reference No.

Consignee (not to order)

TO ORDER

Notify address

KOPPERS INDUSTRIES, INC.
C/O PORT OF PORTLAND
PORTLAND, OREGON, U.S.A

Vessel

Port of loading

OSPREY ARROW V.127

KWANGYANG, KOREA

Port of discharge

PORTLAND, OREGON, U.S.A

Description of cargo

Weight (in metric tons)

2,474.917 M/T

N/M IN BULK

LIQUID PITCH

* PURCHASE ORDER NO. : OM0-1670-2

" FREIGHT PAYABLE AS PER CHARTER PARTY "

ON BOARD DATE :

OCT.09, 2000

Particulars declared by the Shipper

Issued pursuant to Charter Party indicated hereunder	RECEIVED on board the cargo specified above, according to Shipper's declaration in apparent good order and condition - unless otherwise stated herein - weight, volume, quality and value unknown, for delivery at the port of discharge or so near thereto as the Vessel may safely get, always afloat. The cargo shipped under this Waybill will be delivered to the Party named as Consignee or its authorised agent, on production of proof of identity without any documentary formalities. The Carrier to exercise due care ensuring that delivery is made to the proper party. However, in case of incorrect delivery, no responsibility will be accepted unless due to fault or neglect on the part of the Carrier. FOR CONDITIONS OF CARRIAGE SEE OVERLEAF.	
Charter Party (Code name, place and date of issue)		
Freight payable in accordance therewith.	Freight payable at	Place and date of issue
		SEOUL, KOREA - OCT.09, 2000
		Signature
		BARWIL HYOP WOON AGENCIES LTD. AS AGENTS FOR AND ON BEHALF OF MASTER/OWNER OF SAID VESSEL

Printed and sold by
Fr G Knudtzons Bogtrykkeri A/S, 55 Toldbodgade, DK-1253 Copenhagen K.
by authority of The Baltic and International Maritime Council (BIMCO).
Copenhagen, Copyright

COMMERCIAL INVOICE

HVC0000010294

1)Shipper/Exporter DAEWOO CORPORATION C.P.O. BOX 2810 SEOUL KOREA		8)No. & date of invoice 0000016835 OCT. 09, 2000	
		9)No. & date of L/C	
2)For Account & Risk of Messrs. KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A		10)L/C issuing bank	
3)Notify Party KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A		11)Remarks: * P/O NO.OM0-1670-2 DATED JAN. 07, 2000 - THIS INVOICE AMOUNT SHOULD BE PAID ON OR BEFORE NOV. 23, 2000	
4)Port of Loading KWANGYANG, KOREA	5)Final destination PORTLAND, OREGON, U.S.A	ORIGINAL	
6)Carrier OSPREY ARROW	7)Sailing on / about OCT. 09, 2000		
12)Marks and numbers of PKGS	13)Description of goods	14)Quantity/Unit	15)Unit-price 16)Amount

N/M IN BULK

FOB KWANGYANG KOREA

LIQUID PITCH

2,474.917 M/T

* INVOICE NO. : 0000016835 DATED OCT. 09, 2000

* PAYMENT INSTRUCTION

PLEASE PAY THIS INVOICE AMOUNT BY TELEGRAPHIC TRANSFER (T/T)
TO ACCOUNT NO. 361-81-013944 OF SHINHAN BANK, SEODAEMUN BRANCH,
SEOUL, KOREA IN FAVOUR OF KOREA STEEL CHEMICAL CO., LTD. AND
PLEASE INDICATE OUR REFERENCE NO. 0000016835 WHEN YOU REMIT
THIS INVOICE AMOUNT.

////////////////////////////////////

17) C.P.O 2810 SEOUL, KOREA
CABLE: DAEWOO SEOUL
TELEX: DAEWOO K23341/4,K24295
TELEPHONE: 759-2114

18) Signed by



DAEWOO
CORPORATION

DEPARTMENT OF THE TREASURY
UNITED STATES CUSTOMS SERVICE
19 U. S. C. 1481, 1482, 1484

SPECIAL CUSTOMS INVOICE
(Use separate invoice for purchased and non-purchased goods.)

Form Approved
O. M. B. No. 48-R0342

1. SELLER DAEWOO CORPORATION C.P.O. BOX 2810 SEOUL KOREA		2. DOCUMENT NR. *	3. INVOICE NR. AND DATE * 0000016835 OCT. 09, 2000
5. CONSIGNEE TO ORDER		6. BUYER (if other than consignee) KOPPERS INDUSTRIES INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.	
8. NOTIFY PARTY * KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.		7. ORIGIN OF GOODS THE REPUBLIC OF KOREA	
10. ADDITIONAL TRANSPORTATION INFORMATION * FROM : KWANGYANG, KOREA TO : PORTLAND, OREGON, U.S.A. CARRIER : OSPREY ARROW SAILING ON : OCT. 09, 2000		9. TERMS OF SALE, PAYMENT, AND DISCOUNT - F.O.B. KWANGYANG, KOREA * T/T REMITTANCE 45 DAYS AFTER B/L DATE	
11. CURRENCY USED		12. EXCH. RATE (if fixed or agreed)	13. DATE ORDER ACCEPTED

14. MARKS AND NUMBERS ON SHIPPING PACKAGES	15. NUMBER OF PACKAGES	16. FULL DESCRIPTION OF GOODS	17. QUANTITY	UNIT PRICE		20. INVOICE TOTALS
				18. HOME MARKET	19. INVOICE	
N/M IN BULK		LIQUID PITCH - PURCHASE ORDER NO. : OM0-1670-2	2,474.917M/Ts			
////////////////////////////////////						

21. ☐ If the production of these goods involved furnishing goods or services to the seller (e.g. assists such as dies, molds, tools, engineering work) and the value is not included in the invoice price, check box (21) and explain below.

27. DECLARATION OF SELLER/SHIPPER (OR AGENT)

I declare:

(A) ☐ If there are any rebates, drawbacks or bounties allowed upon the exportation of goods, I have checked box (A) and itemized separately below.

(B) ☐ If the goods were not sold or agreed to be sold, I have checked box (B) and have indicated in column 9 the price I would be willing to receive.

I further declare that there is no other invoice differing from this one (unless otherwise described below) and that all statements contained in this invoice and declaration are true and correct.

(C) SIGNATURE OF SELLER/SHIPPER (OR AGENT):

DAEWOO CORPORATION

29. THIS SPACE FOR CONTINUING ANSWERS

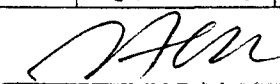
22. PACKING COSTS

23. OCEAN OR INTERNATIONAL FREIGHT

24. DOMESTIC FREIGHT CHARGES

25. INSURANCE COSTS

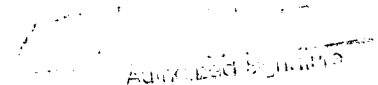
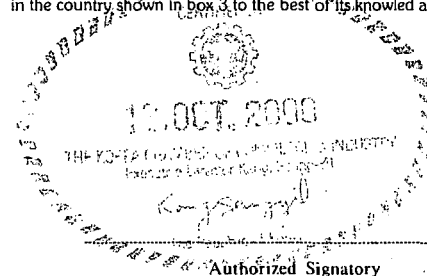
26. OTHER COSTS (Specify Below)


Authorized Signature

THIS FORM OF INVOICE REQUIRED GENERALLY IF RATE OF DUTY BASED UPON OR REGULATED BY VALUE OF GOODS AND PURCHASE PRICE OR VALUE OF SHIPMENT EXCEEDS \$500 OTHERWISE USE COMMERCIAL INVOICE

*Not necessary for U. S. Customs purposes.

Customs Form 5515 (12-20-76)

1. Exporter (Name, address, country) DAEWOO CORPORATION C.P.O. BOX 2810 SEOUL KOREA		ORIGINAL	
2. Consignee (Name, address, country) TO ORDER		CERTIFICATE OF ORIGIN issued by THE KOREA CHAMBER OF COMMERCE & INDUSTRY Seoul, Republic of Korea	
		3. Country of Origin The Republic of KOREA	
4. Transport details * FROM : KWANGYANG, KOREA * TO : PORTLAND, OREGON, U.S.A * SAILING DATE: OCT. 09, 2000 * VESSEL NAME : OSPREY ARROW		5. Remarks	
6. Marks & numbers; number and kind of packages: description of goods N/M IN BULK LIQUID PITCH * PURCHASE ORDER NO. : OM0-1670-2 * INVOICE NO. : 0000016835 DATED OCT. 09, 2000		7. Quantity 2,474.917M/T (QUANTITY)	
KCS Form A			
8. Declaration by the Exporter The undersigned, as an authorized signatory, hereby declares that the above-mentioned goods were produced or manufactured in the country shown in box 3.  (Signature) (Name)		9. Certification The undersigned authority hereby certifies that the goods described above originate in the country shown in box 3 to the best of its knowledge and belief.  12 OCT 2000 THE KOREA CHAMBER OF COMMERCE & INDUSTRY Seoul, Republic of Korea (Authorized Signatory) Certificate No. 537007	

THE KOREA CHAMBER OF COMMERCE & INDUSTRY

KOSCO**KOREA STEEL CHEMICAL CO., LTD.**
12, 13TH FLOOR, SAMDO BLDG., 1-170,
SUNHWA-DONG, CHUNG-GU, SEOUL, KOREA
TEL : (02) 3705-7000 FAX : (02) 771-0741-8

ADVICE OF SHIPMENT

KOPPERS INDUSTRIES, INC.
7540 NW SAINT HELENS ROAD,
PORTLAND, OREGON 97210-3663

TEL : 503-286-3681

FAX : 503-285-2831

ATTN : MR. AMOS S. KAMERER

DATE : OCT. 12, 2000

WE ARE PLEASED TO INFORM YOU OF SHIPMENT DETAILS AS FOLLOWS ;

► INVOICE NO. : 0000016835 DATED OCT. 09, 2000
► QUANTITY : 2,474.917MT OF LIQUID PITCH
► AMOUNT [REDACTED]
► ON BOARD DATE : OCT. 09, 2000
► DUE DATE : NOV. 23, 2000

THIS DUE AMOUNT SHOULD BE PAID ON/OR BEFORE NOV. 23, 2000 TO THE BANK AND
ACCOUNT NUMBER INDICATED ON THE COMMERCIAL INVOICE ENCLOSED.

► VESSEL NAME : M/V "OSPREY ARROW"
► FROM KWANGYANG KOREA, TO PORTLAND, OREGON, U.S.A.

THE FOLLOWING SHIPPING DOCUMENTS ARE ENCLOSED HERewith ;

1. BILL OF LADING	: 2 ORIGINALS + 2 COPIES
2. COMMERCIAL INVOICE	: 3 ORIGINALS
3. CUSTOMS INVOICE	: 3 ORIGINALS
4. CERTIFICATE OF ORIGIN	: 1 ORIGINAL + 1 COPY
5. CERTIFICATE OF ANALYSIS	: 3 ORIGINALS
6. CERTIFICATE OF WEIGHT	: 3 ORIGINALS
7. CERTIFICATE OF VESSEL CLEANLINESS	: 3 ORIGINALS

BEST REGARDS,


J. W. LEE
GENERAL MANAGER
KOREA STEEL CHEMICAL CO., LTD



We acquired ISO 9002 and ISO 14001 certification

CODE NAME: "CHEMTANKWAYBILL 85"

Shipper

DAEWOO CORPORATION
C.P.O. BOX 2810 SEOUL KOREA

NON-NEGOTIABLE
CHEMICAL TANK
WAYBILL

CTWB No.

2

Reference No.

Consignee (not to order)

TO ORDER

Notify address

KOPPERS INDUSTRIES, INC.
C/O PORT OF PORTLAND
PORTLAND, OREGON, U.S.A

Vessel

Port of loading

OSPREY ARROW V.127

KWANGYANG, KOREA

Port of discharge

PORTLAND, OREGON, U.S.A

Description of cargo

Weight (in metric tons)

2,474.917 M/T

N/M IN BULK

LIQUID PITCH

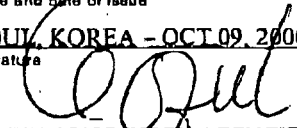
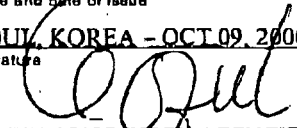
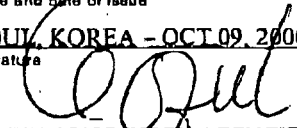
* PURCHASE ORDER NO. : OM0-1670-2

" FREIGHT PAYABLE AS PER CHARTER PARTY "

ON BOARD DATE :

OCT.09, 2000

Particulars declared by the Shipper

Issued pursuant to Charter Party indicated hereunder	<p>RECEIVED on board the cargo specified above, according to Shipper's declaration in apparent good order and condition - unless otherwise stated herein - weight, volume, quality and value unknown, for delivery at the port of discharge or so near thereto as the Vessel may safely get, always afloat.</p> <p>The cargo shipped under this Waybill will be delivered to the Party named as Consignee or its authorised agent, on production of proof of identity without any documentary formalities. The Carrier to exercise due care ensuring that delivery is made to the proper party. However, in case of incorrect delivery, no responsibility will be accepted unless due to fault or neglect on the part of the Carrier.</p> <p>FOR CONDITIONS OF CARRIAGE SEE OVERLEAF.</p>					
Charter Party (Code name, place and date of issue)	<table border="1"> <tr> <td data-bbox="693 1774 1015 1837">Freight payable at</td> <td data-bbox="1015 1774 1513 1837">Place and date of issue</td> </tr> <tr> <td></td> <td>SEOUL, KOREA - OCT 09, 2000</td> </tr> </table>		Freight payable at	Place and date of issue		SEOUL, KOREA - OCT 09, 2000
Freight payable at	Place and date of issue					
	SEOUL, KOREA - OCT 09, 2000					
Freight payable in accordance therewith.	<table border="1"> <tr> <td data-bbox="693 1837 1015 1988">Signature</td> <td data-bbox="1015 1837 1513 1988">  RAPWIL HYOD AS AGENTS FOR AND ON BEHALF OF MASTER/OWNER OF SAID VESSEL </td> </tr> </table>		Signature	 RAPWIL HYOD AS AGENTS FOR AND ON BEHALF OF MASTER/OWNER OF SAID VESSEL		
Signature	 RAPWIL HYOD AS AGENTS FOR AND ON BEHALF OF MASTER/OWNER OF SAID VESSEL					

COMMERCIAL INVOICE

HVC0000010294

1)Shipper/Exporter DAEWOO CORPORATION C.P.O. BOX 2810 SEOUL KOREA		8)No. & date of invoice 0000016835 OCT. 09, 2000	
2)For Account & Risk of Messrs. KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A		9)No. & date of L/C	
3)Notify Party KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A		10)L/C issuing bank	
4)Port of Loading KWANGYANG, KOREA		11)Remarks: * P/O NO.OM0-1670-2 DATED JAN. 07, 2000 - THIS INVOICE AMOUNT SHOULD BE PAID ON OR BEFORE NOV. 23, 2000	
5)Final destination PORTLAND, OREGON, U.S.A		ORIGINAL	
6)Carrier OSPREY ARROW			
7)Sailing on / about OCT. 09, 2000			
12)Marks and numbers of PKGS	13)Description of goods	14)Quantity/Unit	15)Unit-price 16)Amount

N/M IN BULK

FOB KWANGYANG KOREA

LIQUID PITCH

2,474.917 M/T

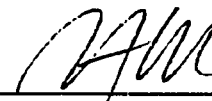
* INVOICE NO. : 0000016835 DATED OCT. 09, 2000

* PAYMENT INSTRUCTION

PLEASE PAY THIS INVOICE AMOUNT BY TELEGRAPHIC TRANSFER (T/T)
TO ACCOUNT NO. 361-81-013544 OF SHINHAN BANK, SEODAEJON BRANCH,
SEOUL, KOREA IN FAVOUR OF KOREA STEEL CHEMICAL CO., LTD. AND
PLEASE INDICATE OUR REFERENCE NO. 0000016835 WHEN YOU REMIT
THIS INVOICE AMOUNT.

17) C.P.O 2810 SEOUL, KOREA
CABLE: DAEWOO SEOUL
TELEX: DAEWOO K23341/4,K24295
TELEPHONE: 759-2114

18) Signed by



DAEWOO
CORPORATION

DEPARTMENT OF THE TREASURY
UNITED STATES CUSTOMS SERVICE
19 U. S. C. 1481, 1482, 1484

SPECIAL CUSTOMS INVOICE

Use separate invoice for purchased and non-purchased goods.

Form Approved.

O. M. B. No. 48-R0342

1. SELLER DAEWOO CORPORATION C.P.O. BOX 2810 SEOUL KOREA		2. DOCUMENT NR. *	3. INVOICE NR. AND DATE * 0000016835 OCT. 09, 2000
5. CONSIGNEE TO ORDER		6. BUYER (if other than consignee) KOPPERS INDUSTRIES INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.	
8. NOTIFY PARTY *		7. ORIGIN OF GOODS THE REPUBLIC OF KOREA	
KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.		9. TERMS OF SALE, PAYMENT, AND DISCOUNT - F.O.B. KWANGYANG, KOREA * T/T REMITTANCE 45 DAYS AFTER B/L DATE	
10. ADDITIONAL TRANSPORTATION INFORMATION *		11. CURRENCY USED	
FROM : KWANGYANG, KOREA TO : PORTLAND, OREGON, U.S.A. CARRIER : OSPREY ARROW SAILING ON : OCT. 09, 2000		12. EXCH. RATE (if fixed or agreed)	
		13. DATE ORDER ACCEPTED	

14. MARKS AND NUMBERS ON SHIPPING PACKAGES	15. NUMBER OF PACKAGES	16. FULL DESCRIPTION OF GOODS	17. QUANTITY	18. UNIT PRICE		20. INVOICE TOTALS
				18. DANCE MARKET	19. INVOICE	
N/M IN BULK		LIQUID PITCH - PURCHASE ORDER NO. : OM0-1670-2	2,474.917M/Ts			
////////////////////////////////////						

21. ☐ If the production of these goods involved furnishing goods or services to the seller (e.g. analysts such as dies, molds, tools, engineering work) and the value is not included in the invoice price, check box (21) and explain below.

27. DECLARATION OF SELLER/SHIPPER (OR AGENT)

I declare:

(A) ☐ If there are any rebates, drawbacks or bounties allowed upon the exportation of goods, I have checked box (A) and itemized separately below.

(B) ☐ If the goods were not sold or agreed to be sold, I have checked box (B) and have indicated in column 9 the price I would be willing to receive.

I further declare that there is no other invoice differing from this one (unless otherwise described below) and that all statements contained in this invoice and declaration are true and correct.

(C) SIGNATURE OF SELLER/SHIPPER (OR AGENT):

25. PACKING COSTS

23. OCEAN OR INTERNATIONAL FREIGHT

24. DOMESTIC FREIGHT CHARGES

25. INSURANCE COSTS

26. OTHER COSTS


DAEWOO CORPORATION

Authorized Signature

THIS FORM OF INVOICE REQUIRED GENERALLY IF RATE OF DUTY BASED UPON OR REGULATED BY VALUE OF GOODS AND PURCHASE PRICE OR VALUE OF SHIPMENT EXCEEDS 300. OTHERWISE USE COMMERCIAL INVOICE

*Not necessary for U. S. Customs purposes.

Customs Form 5515 (12-20-76)

1. Exporter (Name, address, country) DAEWOO CORPORATION C.P.O. BOX 2810 SEOUL, KOREA		ORIGINAL	
2. Consignee (Name, address, country) TO ORDER		CERTIFICATE OF ORIGIN Issued by THE KOREA CHAMBER OF COMMERCE & INDUSTRY Seoul, Republic of Korea	
4. Transport details * FROM : KWANGYANG, KOREA * TO : PORTLAND, OREGON, U.S.A * SAILING DATE: OCT. 09, 2000 * VESSEL NAME : OSPREY ARROW		3. Country of Origin The Republic of KOREA	
5. Remarks			
6. Marks & numbers: number and kind of packages: description of goods N/M IN BULK LIQUID PITCH * PURCHASE ORDER NO. : OM0-1670-2 * INVOICE NO. : 0000016835 DATED OCT. 09, 2000		7. Quantity 2,474.917M/T (QUANTITY)	
8. Declaration by the Exporter The undersigned, as an authorized signatory, hereby declares that the above mentioned goods were produced or manufactured in the country shown in box 3. (Signature) _____ (Name) _____		9. Certification The undersigned authority hereby certifies that the goods described above originate in the country shown in box 3 to the best of its knowledge and belief.  Authorized Signatory _____	
		Certificate No. 537007	

THE KOREA CHAMBER OF COMMERCE & INDUSTRY



KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION
(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:

"KOMSA" SEOUL
C. P. O. BOX 3121 SEOUL
TLX. NO. KOMSA K21945
FAX. 754 - 8109

TELEPHONE

SEOUL 754-8106-8	YOSU	62-4589
PUSAN 44-5786		62-6599
ULSAN 72-7627	DONGHAE	33-1887
INCHON 763-9501-2		2474
MOKPO 43-1205	KWANGYANG	791-3950
POHANG 72-3942	KUNSAN	2-9350

COPY

Report No. G-001009-02 Issued at: Kwangyang, Korea Date: Oct. 9, 2000

TANK DRY CERTIFICATE

Applicant: Messrs. DAEWOO CORPORATION SEOUL, KOREA

Name of Vessel: " OSPREY ARROW " Voy. No. 127

Place & Date of Survey: Oct. 8, 2000 at the steel scrap wharf of POSCO, Kwangyang, Korea

THIS IS TO CERTIFY THAT we, the undersigned surveyors to KOREA MARINE
SURVEYORS & SWORN MEASURERS' CORPORATION, have this date inspected cargo tank(s)

Nos.: No. 2 TANK

and found same to be empty, dry, suitable and ready for loading Liquid Pitch in bulk

Heating coils in the following of the above inspected tank(s) are tested
with steam pressure and found tight

Previous Cargo : Liquid Pitch

This inspection was made and certificate is given without prejudice to any question of rights
and/or liabilities on any persons interested or concerned.



MARINE SURVEYORS & SWORN
MEASURERS' CORPORATION (KOMSA)

Staff Surveyor, S. C. Ju

KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:

"KOMSA" SEOUL
C. P. O. BOX 3121 SEOUL
TLX. NO. KOMSA K24945

TELEPHONE

SEOUL 754-8106-8 YOSU 62-4589
PUSAN 44-5786 62-6599
ULSAN 72-7627 KWANGYANG 791-3950

COPY

SURVEY REPORT

(Sampling and Analysis Certificate)

Report No. C-001009-02-A Issued at: Kwangyang, Korea Date: Oct. 9, 2000

THIS IS TO CERTIFY THAT we, the undersigned, Korea Marine Surveyors & Sworn Measurers' Corporation, Kwangyang did at the request of Messrs. DAEWOO CORPORATION SEOUL, KOREA attend at the laboratory in the premises of the manufacturer in order to draw out a sample of the shipping cargo to be loaded on board the undernoted vessel and herewith report as follows:

DESCRIPTION

Name of Carrier : " OSPREY ARROW "
Commodity : Liquid Pitch in bulk
Quantity : 2,474.917 M/Tons
Port from/to : Kwangyang, Korea to Portland, Oregon, U.S.A

SAMPLING/ANALYSIS

The analysis for the above samples was carried out on attendance of the undersigned, the General Marine Surveyor, at the laboratory in the premises of the manufacturer on Oct. 9, 2000 and resulted as follows:

TEST ITEM & UNIT	SPEC.	RESULTS	METHOD
SOFTENING POINT(°C)	108~112	108.6	ASTM D 3104-87
QUINOLINE INSOLUBLE(%)	8~12	9.8	ASTM D 2318-86
TOLUENE INSOLUBLE(%)	28 MIN.	28.1	ASTM D 4072-91
COKING VALUE(%)	55.0 MIN.	58.2	ASTM D 2416-84
DISTILLATION TO 360°C(%)	3.0 MAX.	1.03	ASTM D 20-91
SPECIFIC GRAVITY(g/cm3)	1.31 MIN.	1.319	ASTM D 2320-81
ASH(%)	0.30 MAX.	0.12	ASTM D 2415-86
SODIUM(%)	500 MAX.	70	A. A. METHOD
MOISTURE(%)	0.30 MAX.	<0.1	ASTM D 95-83
MESOPHASE(<10 μm)	2.0 MAX.	0.52	ASTM D 4616-91

This report is given without prejudice.



KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION

Staff Surveyor, S. C. Ju

KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:

"KOMSA" SEOUL
 TLX. NO. KOMSA K24945
 FAX. 754 - 8109

COPY

TELEPHONE

SEOUL 754-8106-8 YOSU 62-4589
 ULSAN 72-7027 DONGHAEC 33-1867
 INCHON 763-9501-2 2474
 MOGRO 43 1806 KWANGYANG 761 3950

SURVEY REPORT

(Liquid Gauging of Tankers)

Report No. G-001009-02-B

Date Oct. 9, 2000

Applicant: DAEWOO CORPORATION SEOUL, KOREA

Name of Vessel: " OSPREY ARROW " Gross tonnage:

Port from and to: Kwangyang, Korea to Portland, Oregon, U.S.A

Place & Date of Survey: Oct. 9, 2000 at the steel scrap wharf of POSCO, Kwangyang, Korea

Description of cargo	Quantity on Invoice/B/L	Density	Remarks
Liquid Pitch in bulk	2,474.917 M/Tons	1.22639	196.4 °C
		1.22621	198.8 °C

We hereby certify that the following figures are correct to our best knowledge, based on the Tank Scales provided on board.

<u>Tank No.</u>	<u>Gauging</u> (Ull.)	<u>Corrected</u> (Ull.)	<u>Water</u>	<u>App. Volume</u> (K/L)	<u>Temp</u> (°C)	<u>Density</u>	<u>Weight</u> (M/T)
No. 1	6.408	6.408	-	2,658.500	196.4	1.22639	3,260.358
No. 2	6.513	6.513	-	2,295.332	196.8	1.22621	2,814.559
TOTAL :	2 TANKS						6,074.917 M/T
 Remarks :- Ship's on board quantity were distributed based on the portion of each B/L figures which are as follows:-							
B/L Figures						2,474.917 M/Tons	
Remainder Other B/L						3,600.000 M/Tons	

THAT IS

TWO THOUSAND FOUR HUNDRED AND SEVENTY FOUR DECIMAL NINE ONE SEVEN(2,474.917)M/T ONLY.

Ship's Draft:Fore 8.200 m

After 8.700 m

Trim 0.500 m by the stern

MARINE SURVEYORS &
SWORN MEASURERS' CORPORATION

Staff Surveyor. S.

Ju

KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION
(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

Report No. G-001009-02-CIssued at Kwangyang, KoreaDate: Oct. 9, 2000**COPY****SURVEY REPORT**

(Certificate of Sampling)

THIS IS TO CERTIFY THAT WE, the undersigned surveyor to Korea Marine Surveyors & Sworn Measurers' Corporation, Kwangyang, Korea, did, at the request of Messrs. DAEWOO CORPORATION SEOUL, KOREA attend at the tank of manufacturer in order to draw out a sample of the shipping cargo to be loaded on board the undernoted vessel and herewith report as follows:-

DESCRIPTION

Name of Carrier : " OSPREY ARROW " Voy. No. : 127
Commodity : Liquid Pitch in bulk
B/L Quantity : 2,474.917 M/Tons
Port from/to : Kwangyang, Korea to Portland, Oregon, U.S.A

SAMPLING

Attending at the above mentioned place in company with parties concerned, the undersigned inspected sampling cans furnished by the applicant and found them cleaned and dry and then samples were taken in accordance with sampling method and plugged immediately/tightly by the undersigned surveyor.

COMPONENTQUANTITYDISTRIBUTED

BASED ON

3 Cans

One(1) can retained by this corporation.

ISO STANDARD

One(1) can to laboratory for analysis.

6257-1980(E)

One(1) can on board a plane for receiver at destination.

This survey was made and report is given without prejudice to any question of rights and/or liabilities on any other persons interested or concerned.



KOREA MARINE SURVEYORS & SWORN
MEASURERS' CORPORATION (KOMSA)

Staff Surveyor, S. C. Ju

KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION
(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

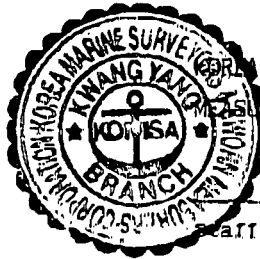
Report No. G-001009-02-DIssued at: Kwangyang, KoreaDate: Oct. 9, 2000**COPY****CERTIFICATE OF CARGO LOADING BY TANK**

I hereby certify that, as the result of reading of the level gauge for the subject cargo and calculation of each tank on board the M.V "OSPREY ARROW", the following quantities of Liquid Pitch were found to be loaded into the tanks as shown below:-

No.2 Tank

: 2,474.917 M/Tons

This survey was made and report is given without prejudice to any question of rights and/or liabilities on any other persons interested or concerned.



KOREA MARINE SURVEYORS & SWORN
MEASURERS' CORPORATION (KOMSA)

Staff Surveyor, S. C. Ju

KOSCO**KOREA STEEL CHEMICAL CO. LTD.**12, 13TH FLOOR, SAMDO BLDG., 1-170,
SINHWA-DONG, CHUNG-GU, SEOUL, KOREA
TEL : (02) 3705-7000 FAX : (02) 771-0741~8

ADVICE OF SHIPMENT

KOPPERS INDUSTRIES, INC.
7540 NW SAINT HELENS ROAD,
PORTLAND, OREGON 97210-3663

TEL : 503-286-3681

FAX : 503-285-2831

ATTN : MR. AMOS S. KAMERER

DATE : AUG. 07, 2000

WE ARE PLEASED TO INFORM YOU OF SHIPMENT DETAILS AS FOLLOWS ;

► INVOICE NO. : 0000012578 DATED AUG. 04, 2000

► QUANTITY : 2,868.461MT OF LIQUID PITCH

► AMOUNT [REDACTED]

► ON BOARD DATE : AUG. 04, 2000

► DUE DATE : SEP. 18, 2000

THIS DUE AMOUNT SHOULD BE PAID ON/OR BEFORE SEP. 18, 2000 TO THE BANK AND
ACCOUNT NUMBER INDICATED ON THE COMMERCIAL INVOICE ENCLOSED.

► VESSEL NAME : M/V "OSPREY ARROW"

► FROM KWANGYANG KOREA, TO PORTLAND, OREGON, U.S.A.

THE FOLLOWING SHIPPING DOCUMENTS ARE ENCLOSED HERewith ;

1. BILL OF LADING	: 2 ORIGINALS + 2 COPIES
2. COMMERCIAL INVOICE	: 3 ORIGINALS
3. CUSTOMS INVOICE	: 3 ORIGINALS
4. CERTIFICATE OF ORIGIN	: 1 ORIGINAL + 1 COPY
5. CERTIFICATE OF ANALYSIS	: 3 ORIGINALS
6. CERTIFICATE OF WEIGHT	: 3 ORIGINALS
7. CERTIFICATE OF VESSEL CLEANLINESS	: 3 ORIGINALS

BEST REGARDS,

J. W. LEE
GENERAL MANAGER
KOREA STEEL CHEMICAL CO., LTD

We acquired ISO 9002 and ISO 14001 certification

CODE NAME: "CHEMTANKWAYBILL 85"

Shipper

DAEWOO CORPORATION
C.P.O. BOX 2810 SEOUL KOREA

NON-NEGOTIABLE
CHEMICAL TANK
WAYBILL

Reference No.

Consignee (not to order)

TO ORDER

Notify address

KOPPERS INDUSTRIES, INC.
C/O PORT OF PORTLAND
PORTLAND, OREGON, U.S.A

FIRST ORIGINAL

V9391

OSPREY ARROW V.126

Part of loading

KWANGYANG, KOREA

Port of discharge

PORTLAND, OREGON, U.S.A

Description of cargo

Weight (in metric tons)

2,868.461 M/T

N/M IN BULK

LIQUID PITCH


* PURCHASE ORDER NO.: OM0-1670-2

" FREIGHT PAYABLE AS PER CHARTER PARTY "

ON BOARD DATE :

AUG.04, 2000

Particulars declared by the Shipper

<p>Issued pursuant to Charter Party indicated hereunder</p>	<p>RECEIVED on board the cargo specified above, according to Shipper's declaration in apparent good order and condition - unless otherwise stated herein - weight, volume, quality and value unknown, for delivery at the port of discharge or so near thereto as the Vessel may safely get, always afloat.</p> <p>The cargo shipped under this Waybill will be delivered to the Party named as Consignee or its authorised agent, on production of proof of identity without any documentary formalities. The Carrier to exercise due care ensuring that delivery is made to the proper party. However, in case of incorrect delivery, no responsibility will be accepted unless due to fault or neglect on the part of the Carrier.</p> <p>FOR CONDITIONS OF CARRIAGE SEE OVERLEAF.</p>	
<p>Charter Party (Code name, place and date of issue)</p> <p>Freight payable in accordance therewith.</p>	<p>Freight payable at</p>	<p>Place and date of issue SEOUL, KOREA - AUG.04, 2000</p>
		<p>Signature  BARWIL HYOP WOON AGENCIES LTD. AS AGENTS FOR AND ON BEHALF OF MASTER/OWNER OF SAID VESSEL</p>

COMMERCIAL INVOICE

HVC0000008247

1)Shipper/Exporter DAEWOO CORPORATION C.P.O. BOX 2810 SEOUL KOREA		8)No. & date of invoice 0000012578 AUG. 04, 2000	
2)For Account & Risk of Messrs. KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A		9)No. & date of L/C	
3)Notify Party KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A		10)L/C issuing bank	
4)Port of Loading KWANGYANG, KOREA		11)Remarks: * P/O NO.OM0-1670-2 DATED JAN. 07, 2000 - THIS INVOICE AMOUNT SHOULD BE PAID ON OR BEFORE SEP. 18, 2000	
5)Final destination PORTLAND, OREGON, U.S.A		ORIGINAL	
6)Carrier OSPREY ARROW			
7)Sailing on / about AUG. 04, 2000			
12)Marks and numbers of PKGS	13)Description of goods	14)Quantity/Unit	15)Unit-price 16)Amount

N/M IN BULK

FOB KWANGYANG KOREA

LIQUID PITCH

2,868.461M/T

* INVOICE NO. : 0000012578 DATED AUG. 04, 2000
 * PAYMENT INSTRUCTION
 PLEASE PAY THIS INVOICE AMOUNT BY TELEGRAPHIC TRANSFER (T/T)
 TO ACCOUNT NO. 361-81-013944 OF SHINHAN BANK, SEODAEMUN BRANCH,
 SEOUL, KOREA IN FAVOUR OF KOREA STEEL CHEMICAL CO., LTD. AND
 PLEASE INDICATE OUR REFERENCE NO. 0000012578 WHEN YOU REMIT
 THIS INVOICE AMOUNT.

17) C.P.O 2810 SEOUL, KOREA
 CABLE: DAEWOO SEOUL
 TELEX: DAEWOO K23341/4,K24296
 TELEPHONE: 759-2114

18) Signed by

DAEWOO
CORPORATION

ORIGINAL

DEPARTMENT OF THE TREASURY
UNITED STATES CUSTOMS SERVICE
19 U. S. C. 1481, 1482, 1484

SPECIAL CUSTOMS INVOICE
(Use separate invoice for purchased and non-purchased goods.)

Form Approved
O. M. B. No. 48-R0342

1. SELLER DAEWOO CORPORATION C.P.O. BOX 2810 SEOUL KOREA	2. DOCUMENT NR. *	3. INVOICE NR. AND DATE * 0000012578 AUG. 04, 2000
5. CONSIGNEE TO ORDER	6. BUYER (if other than consignee) KOPPERS INDUSTRIES INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.	
8. NOTIFY PARTY * KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.	7. ORIGIN OF GOODS THE REPUBLIC OF KOREA	
10. ADDITIONAL TRANSPORTATION INFORMATION * FROM : KWANGYANG, KOREA TO : PORTLAND, OREGON, U.S.A. CARRIER : OSPREY ARROW SAILING ON : AUG. 04, 2000	9. TERMS OF SALE, PAYMENT, AND DISCOUNT - F.O.B. KWANGYANG, KOREA * T/T REMITTANCE 45 DAYS AFTER B/L DATE	
14. MARKS AND NUMBERS ON SHIPPING PACKAGES	15. NUMBER OF PACKAGES	16. FULL DESCRIPTION OF GOODS
N/M IN BULK		2,868.461M/Ts LIQUID PITCH - PURCHASE ORDER NO. : OM0-1670-2
17. QUANTITY	18. EXCH. RATE (if fixed or agreed)	19. DATE ORDER ACCEPTED

21 ☐ If the production of these goods involved furnishing goods or services to the seller (e.g. assists such as dies, molds, tools, engineering work) and the value is not included in the invoice price, check box (21) and explain below.

22. PACKING COSTS

27. DECLARATION OF SELLER/SHIPPER (OR AGENT)

I declare:

(A) ☐ If there are any rebates, drawbacks or bounties allowed upon the exportation of goods, I have checked box (A) and itemized separately below.

(B) ☐ If the goods were not sold or agreed to be sold, I have checked box (B) and have indicated in column 9 the price I would be willing to receive.

I further declare that there is no other invoice differing from this one (unless otherwise described below) and that all statements contained in this invoice and declaration are true and correct.

(C) SIGNATURE OF SELLER/SHIPPER (OR AGENT):

DAEWOO CORPORATION

23. OCEAN OR INTERNATIONAL FREIGHT

24. DOMESTIC FREIGHT CHARGES

25. INSURANCE COSTS

26. OTHER COSTS (Specify Below)

29. THIS SPACE FOR CONTINUING ANSWERS


Authorized Signature

THIS FORM OF INVOICE REQUIRED GENERALLY IF RATE OF DUTY BASED UPON OR REGULATED BY VALUE OF GOODS AND PURCHASE PRICE OR VALUE OF SHIPMENT EXCEEDS \$500 OTHERWISE USE COMMERCIAL INVOICE

*Not necessary for U. S. Customs purposes.

Customs Form 5515 (12-20-76)

Form No KCCI-2 1998

1. Seller

DAEWOO CORPORATION
C.P.O. BOX 2810 SEOUL KOREA

2. Consignee

TO ORDER

3. Particulars of Transport (where required)

* **FROM : KWANGYANG, KOREA**
 * **TO : PORTLAND, OREGON, U.S.A**
 * **SAILING DATE: AUG. 04, 2000**
 * **VESSEL NAME : OSPREY ARROW**

ORIGINAL CERTIFICATE OF ORIGIN

issued by

THE KOREA CHAMBER OF COMMERCE & INDUSTRY
 Seoul, Republic of Korea

원산지증명서
대한상공회의소

4. Buyer (if other than consignee)

KOPPERS INDUSTRIES, INC.
C/O PORT OF PORTLAND
PORTLAND OREGON, U.S.A

5. Country of Origin

The Republic of Korea

6. Invoice Number and Date

0000012578

AUG. 04, 2000

7. Shipping Marks

N/M IN BULK

8. Number and Kind of Packages; Description of Goods

LIQUID PITCH

9. Quantity, Gross Weight or Measurement
2,868.461M/T
(QUANTITY)

* **PURCHASE ORDER NO. : OMO-1670-2**
 * **INVOICE NO. : 0000012578 DATED AUG. 04, 2000**

10. Other Information

The Korea Chamber of Commerce & Industry hereby certifies, on the basis of relevant invoice and other documents, that the above mentioned goods originate in the country shown in column 5.

514354

07.08.2000

THE KOREA CHAMBER OF COMMERCE & INDUSTRY
 Executive Director, Seoul, Korea

THE KOREA CHAMBER OF COMMERCE & INDUSTRY


KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:

"KOMSA" SEOUL
C. P. O. BOX 3121 SEOUL
TLX. NO. KOMSA K24945
FAX. 754 - 8109

TELEPHONE

SEOUL 754-8106-8	YOSU	62-4589
PUSAN 44-5786		62-6599
ULSAN 72-7627	DONGHAE	33-1887
INCHON 763-9501-2		2474
MOKPO 43-1205	KWANGYANG	791-3950
POHANG 72-3942	KUNSAN	2-9350

COPY

Report No. G-000804-02 Issued at: Kwangyang, Korea Date: Aug. 4, 2000

TANK DRY CERTIFICATEApplicant: Messrs. DAEWOO CORPORATION SEOUL, KOREAName of Vessel: " OSPREY ARROW " Voy. No. 126Place & Date of Survey: Aug. 3, 2000 at the steel scrap wharf of POSCO, Kwangyang, Korea

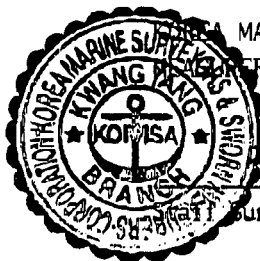
THIS IS TO CERTIFY THAT we, the undersigned surveyors to KOREA MARINE
SURVEYORS & SWORN MEASURERS' CORPORATION, have this date inspected cargo tank(s)

Nos.: No. 2 TANKand found same to be empty, dry, suitable and ready for loading Liquid Pitch in bulk

Heating coils in the following of the above inspected tank(s) are tested
with _____ steam pressure and found tight _____

Previous Cargo : Liquid Pitch

This inspection was made and certificate is given without prejudice to any question of rights
and/or liabilities on any persons interested or concerned.

MARINE SURVEYORS & SWORN
MEASURERS' CORPORATION (KOMSA)

Surveyor, S. C. Ju

KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:

"KOMSA" SEOUL
C.P.O. BOX 3121 SEOUL
TLX. NO. KOMSA K24945

TELEPHONE

SEOUL 754-8106-8 YOSU 62-4589
PUSAN 44-5786 62-6599
ULSAN 72-7627 KWANGYANG 791-3950

COPY**SURVEY REPORT**

(Sampling and Analysis Certificate)

Report No. G-000804-02-A Issued at: Kwangyang, Korea Date: Aug. 4, 2000

THIS IS TO CERTIFY THAT we, the undersigned, Korea Marine Surveyors & Sworn Measurers' Corporation, Kwangyang did at the request of Messrs. DAEWOO CORPORATION SEOUL, KOREA attend at the laboratory in the premises of the manufacturer in order to draw out a sample of the shipping cargo to be loaded on board the undernoted vessel and herewith report as follows:

DESCRIPTION

Name of Carrier : " OSPREY ARROW "
Commodity : Liquid Pitch in bulk
Quantity : 2,868,461 M/Tons
Port from/to : Kwangyang, Korea to Portland, Oregon, U.S.A

SAMPLING/ANALYSIS

The analysis for the above samples was carried out on attendance of the undersigned, the General Marine Surveyor, at the laboratory in the premises of the manufacturer on Aug. 4, 2000 and resulted as follows:

<u>TEST ITEM & UNIT</u>	<u>SPEC.</u>	<u>RESULTS</u>	<u>METHOD</u>
SOFTENING POINT(°C)	108~112	109.2	ASTM D 3104-87
QUINOLINE INSOLUBLE(%)	8~12	9.7	ASTM D 2318-86
TOLUENE INSOLUBLE(%)	28 MIN.	28.1	ASTM D 4072-91
COKING VALUE(%)	55.0 MIN.	60.3	ASTM D 2416-84
DISTILLATION TO 360°C(%)	3.0 MAX.	0.68	ASTM D 20-91
SPECIFIC GRAVITY(g/cm ³)	1.31 MIN.	1.320	ASTM D 2320-81
ASH(%)	0.30 MAX.	0.14	ASTM D 2415-66
SODIUM(ppm)	220 MAX.	122	A. A. METHOD
MOISTURE(%)	0.30 MAX.	<0.1	ASTM D 95-83
MESOPHASE(<10 μm)	2.0 MAX.	0.18	ASTM D 4616-91

This report is given without prejudice.



KOREA MARINE SURVEYORS & SWORN
MEASURERS' CORPORATION

Surveyor, S. C. Ju

KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:

"KOMSA" SEOUL
 TLX. NO. KOMSA K24945
 FAX. 754 - 8109

TELEPHONE

SEOUL 754-8106-8 YOSU 62-4589
 ULSAN 72-7627 DONGHAIE 33-1887
 INCHON 763-9501-2 2474
 MOKPO 43-1205 KWANGYANG 761-3950

COPY

SURVEY REPORT

(Liquid Gauging of Tankers)

Report No. G-000804-02-BDate Aug. 4, 2000Applicant: DAEWOO CORPORATION SEOUL, KOREAName of Vessel: " OSPREY ARROW " Gross tonnage: _____Port from and to: Kwangyang, Korea to Portland, Oregon, U.S.APlace & Date of Survey: Aug. 4, 2000 at the steel scrap wharf of POSCO, Kwangyang, Korea

Description of cargo	Quantity on Invoice/B/L	Density	Remarks
Liquid Pitch in bulk	2,868.461 M/Tons	1.22653	196.1 °C
		1.22662	195.9 °C

We hereby certify that the following figures are correct to our best knowledge, based on the Tank Scales provided on board.

<u>Tank No.</u>	<u>Gauging</u> (Ull.)	<u>Corrected</u> (Ull.)	<u>Water</u>	<u>App. Volume</u> (K/L)	<u>Temp</u> (°C)	<u>Density</u>	<u>Net Volume</u> (M/T)
No. 1	5.350	5.350	-	2,921.980	196.1	1.22653	3,583.896
No. 2	4.870	4.870	-	2,677.736	195.9	1.22662	3,284.565
TOTAL :	2 TANKS						6,868.461 M/T
 Remarks :- Ship's on board quantity were distributed based on the portion of each B/L figures which are as follows:- B/L Figures 2,868.461 M/Tons Remainder Other B/L 4,000.000 M/Tons							

THAT IS TWO THOUSAND EIGHT HUNDRED AND SIXTY EIGHT DECIMAL FOUR SIX ONE(2,868.461)M/TONS ONLY.

Ship's Draft:Fore 7.100 mAfter 8.400 mTrim 1.300 m by the sternKOREA MARINE SURVEYORS &
SWORN MEASURERS' CORPORATION

Staff Surveyor, S. C. Ju

KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION
(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

Report No. G-000804-02-CIssued at: Kwangyang, KoreaDate: Aug. 4, 2000**COPY****SURVEY REPORT**

(Certificate of Sampling)

THIS IS TO CERTIFY THAT WE, the undersigned surveyor to Korea Marine Surveyors & Sworn Measurers' Corporation, Kwangyang, Korea, did, at the request of Messrs. DAEWOO CORPORATION SEOUL, KOREA attend at the tank of manufacturer in order to draw out a sample of the shipping cargo to be loaded on board the undernoted vessel and herewith report as follows:-

DESCRIPTION

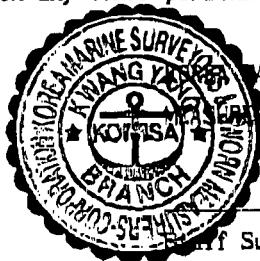
Name of Carrier : " OSPREY ARROW " Voy. No. : 126
Commodity : Liquid Pitch in bulk
B/L Quantity : 2,868.461 M/Tons
Port from/to : Kwangyang, Korea to Portland, Oregon, U.S.A

SAMPLING

Attending at the above mentioned place in company with parties concerned, the undersigned inspected sampling cans furnished by the applicant and found them cleaned and dry and then samples were taken in accordance with sampling method and plugged immediately/tightly by the undersigned surveyor.

<u>COMPONENT</u>	<u>QUANTITY</u>	<u>DISTRIBUTED</u>
BASED ON	3 Cans	One(1) can retained by this corporation.
ISO STANDARD		One(1) can to laboratory for analysis.
6257-1980(E)		One(1) can on board a plane for receiver at destination.

This survey was made and report is given without prejudice to any question of rights and/or liabilities on any other persons interested or concerned.



KOREA MARINE SURVEYORS & SWORN
MEASURERS' CORPORATION (KOMSA)

Surveyor, S. C. Ju

KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION
(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

Report No. G-000804-02-DIssued at: Kwangyang, KoreaDate: Aug. 4, 2000**COPY**

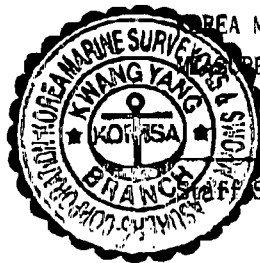
CERTIFICATE OF CARGO LOADING BY TANK

I hereby certify that, as the result of reading of the level gauge for the subject cargo and calculation of each tank on board the M.V "OSPREY ARROW", the following quantities of Liquid Pitch were found to be loaded into the tanks as shown below:-

No. 2 Tank

: 2,868.461 M/Tons

This survey was made and report is given without prejudice to any question of rights and/or liabilities on any other persons interested or concerned.



KOREA MARINE SURVEYORS & SWORN
MEASURERS' CORPORATION (KOMSA)

Surveyor, S. C. Ju

KOSCO**KOREA STEEL CHEMICAL CO., LTD.**
12, 13TH FLOOR, SAMDO BLDG., 1-170,
SUNHWA-DONG, CHUNG-GU, SEOUL, KOREA
TEL : (02) 3706-7000 FAX : (02) 771-0741-R

ADVICE OF SHIPMENT

KOPPERS INDUSTRIES, INC.
7540 NW SAINT HELENS ROAD,
PORTLAND, OREGON 97210-3663

TEL : 503-286-3681

FAX : 503-285-2831

ATTN : MR. AMOS G. KAMERER

DATE : MAY 29, 2000

WE ARE PLEASED TO INFORM YOU OF SHIPMENT DETAILS AS FOLLOWS :

► INVOICE NO. : 0000007850 DATED MAY 24, 2000
► QUANTITY : 4,569.728MT OF LIQUID PITCH
► AMOUNT : XXXXXXXXXX
► ON BOARD DATE : MAY 24, 2000
► DUE DATE : JULY 08, 2000

THIS DUE AMOUNT SHOULD BE PAID ON/OR BEFORE JULY 08, 2000 TO THE BANK AND
ACCOUNT NUMBER INDICATED ON THE COMMERCIAL INVOICE ENCLOSED.

► VESSEL NAME : M/V "OSPREY ARROW"
► FROM KWANGYANG KOREA, TO PORTLAND, OREGON, U.S.A.

THE FOLLOWING SHIPPING DOCUMENTS ARE ENCLOSED HERewith ;

1. BILL OF LADING	: 2 ORIGINALS + 2 COPIES
2. COMMERCIAL INVOICE	: 3 ORIGINALS
3. CUSTOMS INVOICE	: 3 ORIGINALS
4. CERTIFICATE OF ORIGIN	: 1 ORIGINAL + 1 COPY
5. CERTIFICATE OF ANALYSIS	: 3 ORIGINALS
6. CERTIFICATE OF WEIGHT	: 3 ORIGINALS
7. CERTIFICATE OF VESSEL CLEANLINESS	: 3 ORIGINALS

BEST REGARDS,



J. W. LEE
GENERAL MANAGER
KOREA STEEL CHEMICAL CO., LTD



We acquired ISO 9002 and ISO 14001 certification

CODE NAME: "CHEMTANKWAYBILL 85"

Shipper

DAEWOO CORPORATION
C.P.O. BOX 2810 SEOUL KOREA

NON-NEGOTIABLE
CHEMICAL TANK
WAYBILL

CTWB No.

1

Reference No.

Consignee (not to order)

TO ORDER

Notify address

KOPPERS INDUSTRIES, INC.
C/O PORT OF PORTLAND
PORTLAND, OREGON, U.S.A

Vessel

OSPREY ARROW V.125

Port of loading

KWANGYANG, KOREA

Port of discharge

PORTLAND, OREGON, U.S.A

FIRST ORIGINAL

Description of cargo

Weight (in metric tons)

4,569.728 M/T

N/M IN BULK

LIQUID PITCH


* PURCHASE ORDER NO. : OM0-1670-2

" FREIGHT PAYABLE AS PER CHARTER PARTY "

ON BOARD DATE :

MAY 24, 2000

Particulars declared by the Shipper

<p>Issued pursuant to Charter Party indicated hereunder</p>	<p>RECEIVED on board the cargo specified above, according to Shipper's declaration in apparent good order and condition - unless otherwise stated herein - weight, volume, quality and value unknown, for delivery at the port of discharge or so near thereto as the Vessel may safely get, always afloat.</p> <p>The cargo shipped under this Waybill will be delivered to the Party named as Consignee or its authorised agent, on production of proof of identity without any documentary formalities. The Carrier to exercise due care ensuring that delivery is made to the proper party. However, in case of incorrect delivery, no responsibility will be accepted unless due to fault or neglect on the part of the Carrier.</p> <p>FOR CONDITIONS OF CARRIAGE SEE OVERLEAF.</p>	
<p>Charter Party (Code name, place and date of issue)</p>	<p>Freight payable at</p> <p>Place and date of issue</p> <p>SEOUL, KOREA - MAY 24, 2000</p>	
<p>Freight payable in accordance therewith.</p>	<p>Signature</p> <p></p> <p>BARWIL HYOP WOON AGENCIES LTD. AS AGENTS FOR AND ON BEHALF OF MASTER/OWNER OF SAID VESSEL</p>	

COMMERCIAL INVOICE

HVC0000005620

1) Shipper/Exporter DAEWOO CORPORATION C. P. O. BOX 2810 SEOUL KOREA		8) No. & date of invoice 0000007850 MAY 24, 2000	
2) For Account & Risk of Messrs. KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A		9) No. & date of L/C	
		10) L/C Issuing bank	
3) Notify Party KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A		11) Remarks: * P/O NO.OM0-1670-2 DATED JAN. 07, 2000 - THIS INVOICE AMOUNT SHOULD BE PAID ON OR BEFORE JUL. 08, 2000	
4) Port of Loading KWANGYANG, KOREA	5) Final destination PORTLAND, OREGON, U.S.A.	ORIGINAL	
6) Carrier OSPREY ARROW	7) Sailing on / about MAY 24, 2000		
12) Marks and numbers of PKGS	13) Description of goods	14) Quantity/Unit	15) Unit-price 16) Amount

N/M IN BULK

FOB KWANGYANG KOREA

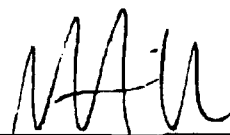
LIQUID PITCH

4,569.728M/T

* INVOICE NO. : 0000007850 DATED MAY 24, 2000
 * PAYMENT INSTRUCTION
 PLEASE PAY THIS INVOICE AMOUNT BY TELEGRAPHIC TRANSFER (T/T)
 TO ACCOUNT NO. 361-81-013944 OF SHINHAN BANK, SEODAEMUN BRANCH,
 SEOUL, KOREA IN FAVOUR OF KOREA STEEL CHEMICAL CO., LTD. AND
 PLEASE INDICATE OUR REFERENCE NO. 0000007850 WHEN YOU REMIT
 THIS INVOICE AMOUNT.

17) C.P.O 2810 SEOUL, KOREA
 CABLE: DAEWOO SEOUL
 TELEX: DAEWOO K23341/4,K24296
 TELEPHONE: 759-2114

18) Signed by



DAEWOO
CORPORATION

ORIGINAL

DEPARTMENT OF THE TREASURY
UNITED STATES CUSTOMS SERVICE
19 U. S. C. 1481, 1482, 1494SPECIAL CUSTOMS INVOICE
(Use separate invoice for purchased and non-purchased goods.)Form Approved
O. M. B. No. 98-R0342

1. SELLER DAEWOO CORPORATION C.P.O. BOX 2810 SEOUL KOREA		2. DOCUMENT NR. *	3. INVOICE NR. AND DATE * 0000007850 MAY 24, 2000
5. CONSIGNEE TO ORDER		9. BUYER (If other than consignee) KOPPERS INDUSTRIES INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.	
8. NOTIFY PARTY * KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.		7. ORIGIN OF GOODS THE REPUBLIC OF KOREA	
10. ADDITIONAL TRANSPORTATION INFORMATION * FROM : KWANGYANG, KOREA TO : PORTLAND, OREGON, U.S.A. CARRIER : OSPREY ARROW SAILING ON : MAY. 24, 2000		9. TERMS OF SALE, PAYMENT, AND DISCOUNT - F.O.B. KWANGYANG, KOREA * T/T REMITTANCE 15 DAYS AFTER B/L DATE	
11. CURRENCY USED		12. EXCH. RATE (if filed or agreed)	13. DATE ORDER ACCEPTED

14. MARKS AND NUMBERS ON SHIPPING PACKAGES	15. NUMBER OF PACKAGES	16. FULL DESCRIPTION OF GOODS	17. QUANTITY	18. UNIT PRICE UNIT PRICE MARKET INVOICE	19. INVOICE TOTALS
N/M IN BULK		LIQUID PITCH - PURCHASE ORDER NO. : OM0-1670-2	4,569.728M/Ts		
////////////////////////////////////					

21. ☐ If the production of these goods involved furnishing goods or services to the seller(s) (e.g. assists such as dies, molds, tools, engineering work) and the value is not included in the invoice price, check box(21) and explain below.

27. DECLARATION OF SELLER/SHIPPER(OR AGENT)

I declare:

(A) ☐ If there are any rebates, drawbacks or bounties allowed upon the exportation of goods, I have checked box(A) and itemized separately below.(B) ☐ If the goods were not sold or agreed to be sold, I have checked box(B) and have indicated in column 9 the price I would be willing to receive.

I further declare that there is no other invoice differing from this one (unless otherwise described below) and that all statements contained in this invoice and declaration are true and correct.

(C) SIGNATURE OF SELLER/SHIPPER(OR AGENT):

22. PACKING COSTS

23. OCEAN OR
INTERNATIONAL
FREIGHT24. DOMESTIC
FREIGHT CHARGES25. INSURANCE
COSTS26. OTHER COSTS
(Specify Below)

28. THIS SPACE FOR CONTINUING ANSWERS

DAEWOO CORPORATION

Authorized Signature

* THE FORM OF INVOICE REQUIRED GENERALLY IN DATE OF COUNTRY-BASED IMPORTS OR EXPORTS BY VALUE OF EXPORTS AND PURCHASE PRICE OR VALUE OF EXPORTS EXCEEDS \$400. THIS FORM IS NOT REQUIRED FOR EXPORTS OF VALUE \$400 OR LESS.

* Not necessary for U. S. Customs purposes.

Customs Form 5515 (12-20-76)

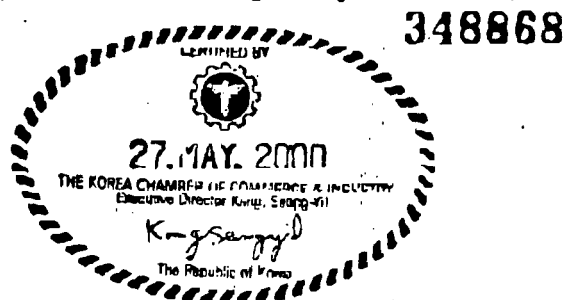
Form No.KCCI-2 1998

1. Seller DAEWOO CORPORATION C.P.O. BOX 2810 SEOUL KOREA		ORIGINAL CERTIFICATE OF ORIGIN issued by THE KOREA CHAMBER OF COMMERCE & INDUSTRY Seoul, Republic of Korea 원산지증명서 대한상공회의소	
2. Consignee TO ORDER			
3. Particulars of Transport (where required) * FROM : KWANGYANG, KOREA * TO : PORTLAND, OREGON, U.S.A. * SAILING DATE: MAY 24, 2000 * VESSEL NAME : OSPREY ARROW		4. Buyer (if other than consignee) KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A	
		5. Country of Origin The Republic of Korea 6. Invoice Number and Date 0000007850 MAY 24, 2000	
7. Shipping Marks N/M IN BULK	8. Number and Kind of Packages; Description of Goods LIQUID PITCH	9. Quantity, Gross Weight or Measurement 4,569.720MT (QUANTITY)	

* PURCHASE ORDER NO. : OM0-1670-2
 * INVOICE NO. : 0000007850 DATED MAY 24, 2000

10. Other Information

The Korea Chamber of Commerce & Industry hereby certifies, on the basis of relevant invoice and other documents, that the above mentioned goods originate in the country shown in column 5.



THE KOREA CHAMBER OF COMMERCE & INDUSTRY

KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION
(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:

"KOMSA" SEOUL
C. P. O. BOX 3121 SEOUL
TLX, NO. KOMSA K24945
FAX, 754 - 8109

TELEPHONE

SEOUL 754-8106-8	YOSU	62-4589
PUSAN 44-5786		62-6599
ULSAN 72-7627	DONGHAE	33-1887
INCHON 763-9501-2		2474
MOKPO 43-1205	KWANGYANG	791-3950
POHANG 72-3942	KUNSAN	2-9350

COPYReport No. G-000524-06Issued at: Kwangyang, KoreaDate: May 24, 2000**TANK DRY CERTIFICATE**Applicant: Messrs. DAEWOO CORPORATION SEOUL, KOREAName of Vessel: " OSPREY ARROW " Voy. No. 125Place & Date of Survey: May 23, 2000 at the steel scrap wharf of POSCO, Kwangyang, Korea

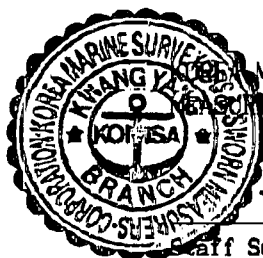
THIS IS TO CERTIFY THAT we, the undersigned surveyors to KOREA MARINE
SURVEYORS & SWORN MEASURERS' CORPORATION, have this date inspected cargo tank(s)

NO. NO. 1 AND NO. 2 TANKand found same to be empty, dry, suitable and ready for loading Liquid Pitch in bulk

Heating coils in the following of the above inspected tank(s) are tested
with _____ steam pressure and found tight _____

Previous Cargo : Liquid Pitch

This inspection was made and certificate is given without prejudice to any question of rights
and/or liabilities on any persons interested or concerned.

MARINE SURVEYORS & SWORN
MEASURERS' CORPORATION (KOMSA)

Staff Surveyor, S. G. Ju

KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:

"KOMSA" SEOUL
C. P. O. BOX 3121 SEOUL
TLX. NO. KOMSA K24945

TELEPHONE

SEOUL 754-8106-8 YOSU 62-4589
PUSAN 44-5786 62-6599
ULSAN 72-7627 KWANGYANG 791-3950

COPY**SURVEY REPORT**

(Sampling and Analysis Certificate)

Report No. G-000524-06-AIssued at: Kwangyang, KoreaDate: May 24, 2000

THIS IS TO CERTIFY THAT we, the undersigned, Korea Marine Surveyors & Sworn Measurers' Corporation, Kwangyang did at the request of Messrs. DAEWOO CORPORATION SEOUL, KOREA attend at the laboratory in the premises of the manufacturer in order to draw out a sample of the shipping cargo to be loaded on board the undernoted vessel and herewith report as follows:

DESCRIPTION

Name of Carrier : " OSPREY ARROW "
Commodity : Liquid Pitch in bulk
Quantity : 4,569.728 M/Tons
Port from/to : Kwangyang, Korea to Portland, Oregon, U.S.A

SAMPLING/ANALYSIS

The analysis for the above samples was carried out on attendance of the undersigned, the General Marine Surveyor, at the laboratory in the premises of the manufacturer on May 23, 2000 and resulted as follows:

<u>TEST ITEM & UNIT</u>	<u>SPEC.</u>	<u>RESULTS</u>	<u>METHOD</u>
SOFTENING POINT(°C)	108~112	108.4	ASTM D 3104-87
QUINOLINE INSOLUBLE(%)	8~12	10.1	ASTM D 2318-86
TOLUENE INSOLUBLE(%)	25 MAX.	20.1	ASTM D 4072-01
COKING VALUE(%)	55.0 MIN.	59.5	ASTM D 2416-84
DISTILLATION TO 360°C(%)	3.0 MAX.	0.96	ASTM D 20-91
SPECIFIC GRAVITY(g/cm3)	1.31 MIN.	1.321	ASTM D 2320-81
ASH(%)	0.30 MAX.	0.11	ASTM D 2415-66
SODIUM(ppm)	500 MAX.	02	A A METHOD
MOISTURE(%)	0.30 MAX.	<0.1	ASTM D 95-83
MESOPHASE(<10 µm)	2.0 MAX.	0.20	ASTM D 4616-91

This report is given without prejudice.

KOREA MARINE SURVEYORS & SWORN
MEASURERS' CORPORATION

Staff Surveyor, S. C. Ju

KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:

"KOMSA" SEOUL
TLX. NO. KOMSA K24945
FAX. 754 - 8109

TELEPHONE

SEOUL 754-8106-8 YOSU 62-4589
ULSAN 72-7627 DONGHAE 33-1887
INCHON 763-9501-2 2474
MOKPO 40 1203 KWANGYANG 701-3950

COPY**SURVEY REPORT**

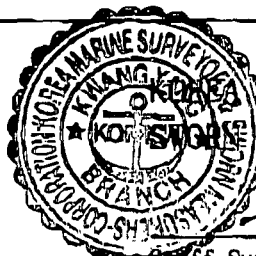
(Liquid Gauging of Tankers)

Report No. G-000524-06-BDate May 24, 2000Applicant: DAEWOO CORPORATION SEOUL, KOREAName of Vessel: " OSPREY ARROW " Gross tonnage: _____Port from and to: Kwangyang, Korea to Portland, Oregon, U.S.APlace & Date of Survey: May 24, 2000 at the steel scrap wharf of POSCO, Kwangyang, Korea

Description of cargo	Quantity on Invoice/B/L	Density	Remarks
Liquid Pitch in bulk	4,569.728 M/Tons	1.22634	196.5 °C
		1.22662	195.9 °C

We hereby certify that the following figures are correct to our best knowledge, based on the Tank Scales provided on board.

<u>Tank No.</u>	<u>Gauging</u> (Ull.)	<u>Corrected</u> (Ull.)	<u>Water</u>	<u>App. Volume</u> (K/L)	<u>Temp</u> (°C)	<u>Density</u>	<u>Net Volume</u> (M/T)
No. 1	2.200	2.200	-	3,690.400	196.5	1.22634	4,525.685
No. 2	2.170	2.170	-	3,296.900	195.9	1.22662	4,044.043
TOTAL :	2 TANKS						8,569.728 M/T
<p>Remarks :- Ship's on board quantity were distributed based on the portion of each B/L figures which are as follows:-</p> <p>B/L Figures 4,569.728 M/Tons Remainder Other B/L 4,000.000 M/Tons</p>							

THAT IS FOUR THOUSAND FIVE HUNDRED AND SIXTY NINE DECIMAL SEVEN TWO EIGHT (4,569.728) M/TONS.Ship's Draft: Fore 10.00 mAfter 10.00 mTrim EVEN KEELMARINE SURVEYORS &
MEASURERS' CORPORATION

Staff Surveyor, S. C. Ju

KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION
(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

Report No. G-000524-06-CIssued at: Kwangyang, KoreaDate: May 24, 2000

COPY
SURVEY REPORT
(Certificate of Sampling)

THIS IS TO CERTIFY THAT WE, the undersigned surveyor to Korea Marine Surveyors & Sworn Measurers' Corporation, Kwangyang, Korea, did, at the request of Messrs. DAEWOO CORPORATION SEOUL, KOREA attend at the tank of manufacturer in order to draw out a sample of the shipping cargo to be loaded on board the undernoted vessel and herewith report as follows:-

DESCRIPTION

Name of Carrier : " OSPREY ARROW " Voy. No. : 125
Commodity : Liquid Pitch in bulk
R/I Quantity : 1,660,720 MTons
Port from/to : Kwangyang, Korea to Portland, Oregon, U.S.A

SAMPLING

Attending at the above mentioned place in company with parties concerned, the undersigned inspected sampling cans furnished by the applicant and found them cleaned and dry and then samples were taken in accordance with sampling method and plugged immediately/tightly by the undersigned surveyor.

<u>COMPONENT</u>	<u>QUANTITY</u>	<u>DISTRIBUTED</u>
BASED ON	3 Cans	One(1) can retained by this corporation.
ISO STANDARD		One(1) can to laboratory for analysis.
6257-1980(E)		One(1) can on board a plane for receiver at destination.

This survey was made and report is given without prejudice to any question of rights and/or liabilities on any other persons interested or concerned.



KOREA MARINE SURVEYORS & SWORN
MEASURERS' CORPORATION (KOMSA)

Surveyor, S. C. Ju

KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION
(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

Report No. G-000524-06-DIssued at: Kwangyang, KoreaDate: May 24, 2000

COPY

CERTIFICATE OF CARGO LOADING BY TANK

I hereby certify that, as the result of reading of the level gauge for the subject cargo and calculation of each tank on board the M.V "OSPREY ARROW", the following quantities of Liquid Pitch were found to be loaded into the tanks as shown below:-

No.1 Tank	: 4,525.685 M/Tons
No.2 Tank	: 44.043 M/Tons

This survey was made and report is given without prejudice to any question of rights and/or liabilities on any other persons interested or concerned.



MARINE SURVEYORS & SWORN
MEASURERS' CORPORATION (KOMSA)

Staff Surveyor, N. C. Ju

FAX TRANSMITTAL

KOPPERS INDUSTRIES, INC.
7540 NW SAINT HELENS RD.
PORTLAND, OR 97210-3663

TELEPHONE: 503-286-3681
FAX: 503-285-2831

TO: J. Dietz, W. Plovic, D. Evans, J. Kunkle

DATE: 5/2/00

FROM: Amos Kameron

TOTAL # OF
PAGES: 3

SUBJECT: Kosco Vessel Receipt

Attached please find a copy of the Surveyor's report on last week's receipt. I thought that you would find the number's interesting.

Total amount invoiced – KII & Intalco	7,583.184 MT
Less amount credited KII from Kosco – density issue	39.878 MT
Less amount credited Intalco from Kosco - “ “	26.103 MT

Revised total amount invoiced	7,517.203 MT
Surveyor's report – amount in vessel tanks	7,512.79 MT
Surveyor's report – amount received in KII tanks	7,516.04 MT

The differences between these various totals is what I would consider to be in the acceptable range, mainly because from vessel to vessel we have no way of measuring the change in the amount of pitch that remains in the pipeline, after each discharge. Plus, the difference between the revised total amount invoiced and the survey of our tanks, was only 1.163 MT.

John, we will have to discuss how you want us to make the adjustment to our inventory, regarding the Kosco credits, remembering that that first vessel was in 1999's business.

Amos

IF THIS TRANSMITTAL IS RECEIVED IN ERROR, PLEASE ADVISE.



SEAPORT

MARINE SURVEYS, INC.

*Serving the Ports of Alaska, The Pacific Northwest,
Northern California and the Mississippi River System*

Capt. Peter J. Morrison MAIMS

Peter Brauns Bs. NS.

8221 Hazel Dell Avenue, Suite 201

Vancouver, WA 98665

U.S.A.

Office & 24 Hour: (503) 285-2246

Office: (360) 574-7463

Fax: (360) 574-7284

email: survey@seaportmarine.com

Cellular Phone: (503) 519-7347

email: pjm@seaportmarine.com

Cellular Phone: (503) 519-7346

email: pb@seaportmarine.com

CERTIFICATE OF WEIGHT SHORE TANKS

Vessel:	Osprey Arrow		Voyage No.		124	
Request of:	Koppers Industries		Location:		Koppers Industries	
Commodity:	Liquid Pencil Pitch		Port:		Port of Portland	
Shore Tank:	200	65			68	
	Initial	Final	Initial	Final	Initial	Final
Date	27-Apr	28-Apr	27-Apr	28-Apr	27-Apr	27-Jan
Time	3:00	3:30	3:00	3:30	3:00	3:00
Temperature (F^o)	388	384	368	380	388	388
Density	1.22576	1.226774	1.230827	1.227787	1.22576	1.22576
Gauge Height	4.7	42.5	6.3	17.40	5	4.7
Gallons	158759	1539404	135225	373083	39515	39515
Cubic Meters	600.97	5827.28	511.88	1412.27	149.58	149.58
Metric Tons	736.64	7148.75	630.04	1733.97	183.35	183.35
Total Received:		6412.11 M/Tons		1103.93 M/Tons		0.00 M/Tons

Total Cargo Received by Shore Tanks:

7516.04 M/Tons



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Cellular Phone: (503) 519-7346

email: pb@seaportmarine.com

CERTIFICATE OF WEIGHT VESSEL TANKS

Vessel:	Osprey Arrow	Voyage No.	124
Request of:	Koppers Industries	Location:	Koppers Industries
Commodity:	Liquid Pencil Pitch	Port:	Port of Portland

Vessel Tank:	1	2
Date	27-Apr	28-Apr
Time	4:45	3:20
Temperature (F°)	200.7	200.4
Density	1.224428	1.224565
Ullage	3.978	17.123
Cubic Meters	3254.84	0.00
Metric Tons	3985.32	0.00
Total Discharged	3985.32 M/Tons	3527.47 M/Tons

Total Cargo Received by Vessel Tanks:

7512.79 M/Tons

G/L	Detail	Subdetail	Location	Department	Tax	Emp No.	Move No./ PO No.	Amount	Inv No.	Date
5050	4		9270		0992				4229	4/3/00
									Vendor Number	
Authorization				Gross Amount					Terms	Due
				Discount					Code	Date
				Net						
								Division 483	Month 4	Audit No.

Wire Transfer 5/18/00

AMOS/ERIN

Note revised amount. Please change your
revenue accordingly



COMMERCIAL INVOICE

HVC0000003307

1) Shipper/Exporter DAEWOO CORPORATION C.P.O. BOX 2810 SEOUL KOREA		6) No. & date of Invoice 0000004229 APR. 03, 2000	
2) For Account & Risk of Messrs. KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A		9) No. & date of L/C	
3) Notify Party KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A		10) L/C Issuing bank	
4) Port of Loading KWANGYANG, KOREA		11) Remarks: * P/O NO. CM0-1670-2 DATED JAN. 07, 2000 - THIS INVOICE AMOUNT SHOULD BE PAID ON OR BEFORE MAY 16, 2000	
5) Final destination PORTLAND, OREGON, U.S.A	7) Selling on / about APR. 03, 2000		
8) Carrier OSPREY ARROW			

12) Marks and numbers of PKGS	13) Description of goods	14) Quantity/Unit	15) Unit-price	16) Amount
-------------------------------	--------------------------	-------------------	----------------	------------

N/M IN BULK

FOB KWANGYANG KOREA

LIQUID PITCH

4,583.184MT

* DIFFERENCE BY CARGO '99.12.8 (39.367MT)

'00. 2.6 (39.640MT)

'00. 4.3 (39.878MT)

* TOTAL ADJUSTED AMOUNT TO BE REMITTED

* PURCHASE ORDER NO.: CM0-1670-2 DATED 7 JANUARY 2000

* INVOICE NO. : 0000004229 DATED APR. 03, 2000

* REVISED PAYMENT INSTRUCTION

PLEASE PAY THIS ADJUSTED INVOICE AMOUNT OF USD1,080,360.35 BY
TELEGRAPHIC TRANSFER (T/T) TO ACCOUNT NO. 361-81-013944 OF SHINKAN
BANK, SEODAEMUN BRANCH, SEOUL, KOREA IN FAVOUR OF KOREA STEEL
CHEMICAL CO., LTD AND PLEASE INDICATE OUR REFERENCE NO.0000004229
WHEN YOU REMIT THIS INVOICE AMOUNT

17) C.P.O 2810 SEOUL, KOREA
CABLE: DAEWOO SEOUL
TELEX: DAEWOO K23341/4, K24286
TELEPHONE: 789-2114

18) Signed by

DAEWOO
CORPORATION

KOSCO

KOREA STEEL CHEMICAL CO., LTD.
12, 13TH FLOOR, SAMDO BLDG., 1-170,
SUNHWA-DONG, CHUNG-GU, SEOUL, KOREA
TEL : (02) 3705-7000 FAX : (02) 771-0741~8

ADVICE OF SHIPMENT

KOPPERS INDUSTRIES, INC.
7540 NW SAINT HELENS ROAD,
PORTLAND, OREGON 97210-3663

TEL : 503 286 3681

FAX : 503 285 2831

ATTN : MR. AMOS S. KAMERER

DATE : FEB. 08, 2000

WE ARE PLEASED TO INFORM YOU OF SHIPMENT DETAILS AS FOLLOWS ;

► INVOICE NO. : 0000000815 DATED FEB. 06, 2000

► QUANTITY : 4,657.354MT OF LIQUID PITCH

► AMOUNT

► ON BOARD DATE : FEB. 06, 2000

► DUE DATE : MAR. 22, 2000

THIS DUE AMOUNT SHOULD BE PAID ON/OR BEFORE MAR. 22, 2000 TO THE BANK AND
ACCOUNT NUMBER INDICATED ON THE COMMERCIAL INVOICE ENCLOSED.

► VESSEL NAME : M/V "OSPREY ARROW"

► FROM KWANGYANG KOREA, TO PORTLAND, OREGON, U. S. A.

THE FOLLOWING SHIPPING DOCUMENTS ARE ENCLOSED HEREWITH ;

- | | |
|-------------------------------------|--------------------------|
| 1. BILL OF LADING | : 2 ORIGINALS + 2 COPIES |
| 2. COMMERCIAL INVOICE | : 3 ORIGINALS |
| 3. COUSTOMS INVOICE | : 3 ORIGINALS |
| 4. CERTIFICATE OF ORIGIN | : 1 ORIGINAL + 1 COPY |
| 5. CERTIFICATE OF ANALYSIS | : 3 ORIGINALS |
| 6. CERTIFICATE OF WEIGHT | : 3 ORIGINALS |
| 7. CERTIFICATE OF VESSEL CLEANLINSS | : 3 ORIGINALS |

BEST REGARDS,



J. W. LEE

GENERAL MANAGER
KOREA STEEL CHEMICAL CO., LTD



We acquired ISO 9002 and ISO 14001 certification

CONFIDENTIAL

Koppers003981

CODE NAME: "CHEMTANKWAYBILL 85"

Shipper

DAEWOO CORPORATION
C.P.O. BOX 2810 SEOUL KOREA

NON-NEGOTIABLE
CHEMICAL TANK
WAYBILL

CTWB No.

1

Reference No.

Consignee (not to order)

TO ORDER

Notify address

KOPPERS INDUSTRIES, INC.
C/O PORT OF PORTLAND
PORTLAND, OREGON, U.S.A

SECOND ORIGINAL

Vessel

OSPREY ARROW V.123

Port of loading

KWANGYANG, KOREA

Port of discharge

PORTLAND, OREGON, U.S.A

Description of cargo

Weight (in metric tons)

4,657.354 M/T

N/M IN BULK

LIQUID PITCH

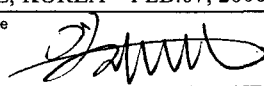
* PURCHASE ORDER NO. : OM0-1670-2

" FREIGHT PAYABLE AS PER CHARTER PARTY "

ON BOARD DATE :

FEB.06, 2000

Particulars declared by the Shipper

Issued pursuant to Charter Party indicated hereunder	RECEIVED on board the cargo specified above, according to Shipper's declaration in apparent good order and condition – unless otherwise stated herein – weight, volume, quality and value unknown, for delivery at the port of discharge or so near thereto as the Vessel may safely get, always afloat. The cargo shipped under this Waybill will be delivered to the Party named as Consignee or its authorised agent, on production of proof of identity without any documentary formalities. The Carrier to exercise due care ensuring that delivery is made to the proper party. However, in case of incorrect delivery, no responsibility will be accepted unless due to fault or neglect on the part of the Carrier. FOR CONDITIONS OF CARRIAGE SEE OVERLEAF.	
Charter Party (Code name, place and date of issue)	Freight payable at	Place and date of issue SEOUL, KOREA – FEB.07, 2000
Freight payable in accordance therewith.		Signature  BARWIL HYOP WOON AGENCIES LTD. AS AGENTS FOR AND ON BEHALF OF MASTER/OWNER OF SAID VESSEL

**NON-NEGOTIABLE
CHEMICAL TANK
WAYBILL**

CODE NAME: "CHEMTANK WAYBILL 85"

RECOMMENDED

by
BIMCO (The Baltic and International Maritime Council)
EPCA (The European Petrochemical Association)
ECCTO (European Coastal Chemical Tanker Owners)
INTERTANKO (International Association of
Independent Tanker Owners)

Conditions of Carriage.

(1) This Waybill, which is not a document of title to the cargo, is subject to the terms and conditions, liberties and exceptions of the Voyage Charter Party dated as overleaf and to the provisions set out below.

(2) Paramount Clause

(a) This Waybill is not a bill of lading and no bill of lading will be issued. However, it is agreed that the Hague Rules contained in the International Convention for the Unification of certain rules relating to Bills of Lading, dated Brussels the 25th August 1924 as enacted in the country of shipment shall apply to this Waybill. When no such enactment is in force in the country of shipment, the corresponding legislation of the country of destination shall apply, but in respect of shipments to which no such enactments are compulsorily applicable, the terms of the said Convention shall apply in exactly the same way.

(b) *Trades where Hague-Visby Rules apply.*

In trades where the International Brussels Convention 1924 as amended by the Protocol signed at Brussels on February 23rd 1968 – the Hague-Visby Rules – apply compulsorily, the provisions of the respective legislation shall also apply to this Waybill.

(c) The Carrier shall in no case be responsible for loss of or damage to cargo howsoever arising prior to loading into and after discharge from the Vessel or while the goods are in the charge of another Carrier nor in respect of deck cargo.

(d) It is agreed that whenever the Brussels Convention and the Brussels Protocol or statutes incorporating same use the words "Bill of Lading" they shall be read and interpreted as meaning "Waybill".

(3) General Average

General Average shall be adjusted, stated and settled according to York-Antwerp Rules 1974 or any modification thereof at the place agreed in the Charter Party.

Cargo's contribution to General Average shall be paid to the Carrier even when such average is the result of a fault, neglect or error of the Master, Pilot or Crew. The Charterers, Shippers and Consignees expressly renounce the Netherlands Commercial Code, Art. 700, and the Belgium Commercial Code, Part II, Art. 148.

If the adjustment of General Average or the liability for any collision in which the Vessel is involved while performing the carriage under this contract falls to be determined in accordance with the law and practice of the United States of America, the following clauses shall apply:

New Jason Clause.

In the event of accident, danger, damage or disaster before or after the commencement of the voyage, resulting from any cause whatsoever, whether due to negligence or not, for which or for the consequence of which, the Carrier is not responsible, by Statute, contract or otherwise, the cargo, shippers, consignees or owners of the cargo shall contribute with the Carrier in general average to the payment of any sacrifices, losses or expenses of a general average nature that may be made or incurred and shall pay salvage and special charges incurred in respect of the cargo.

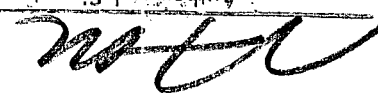
If a salving vessel is owned or operated by the Carrier, salvage shall be paid for as fully as if the said salving vessel or vessels belonged to strangers. Such deposit as the Carrier, or his agent, may deem sufficient to cover the estimated contribution of the cargo and any salvage and special charges thereon shall, if required, be made by the cargo, shippers, consignees or owners of the cargo to the Carrier before delivery.

Both-to-Blame Collision Clause.

If the Vessel comes into collision with another vessel as a result of the negligence of the other vessel and any act, neglect or default of the Master, Mariner, Pilot or the Servants of the Carrier in the navigation or in the management of the Vessel, the owners of the cargo carried hereunder will indemnify the Carrier against all loss or liability to the other or non-carrying vessel or her owners in so far as such loss or liability represents loss of, or damage to, or any claim whatsoever of the owners of the said cargo, paid or payable by the other or non-carrying vessel or her owners to the owners of the said cargo and set-off, recouped or recovered by the other or non-carrying vessel or her owners as part of their claim against the carrying vessel or the Carrier.

The foregoing provisions shall also apply where the owners, operators or those in charge of any vessel or vessels or objects other than, or in addition to, the colliding vessels or objects are at fault in respect of a collision or contact.

For particulars of cargo, freight, destination, etc., see overleaf.

Authorized Signature

DAEWOO CORPORATION

COMMERCIAL INVOICE

TC0000001146

1)Shipper/Exporter DAEWOO CORPORATION C.P.O. BOX 2810 SEOUL KOREA		8)No. & date of invoice 0000000815 FEB. 06, 2000	
		9)No. & date of L/C	
2)For Account & Risk of Messrs. KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A		10)L/C issuing bank	
3)Notify Party KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A		11)Remarks: * P/O NO.OM0-1670-2 DATED JAN. 07, 2000 - THIS INVOICE AMOUNT SHOULD BE PAID ON OR BEFORE MAR. 22, 2000	
4)Port of Loading KWANGYANG, KOREA	5)Final destination PORTLAND, OREGON, U.S.A	ORIGINAL	
6)Carrier OSPREY ARROW	7)Sailing on / about FEB. 06, 2000		
12)Marks and numbers of PKGS	13)Description of goods	14)Quantity/Unit	15)Unit-price 16)Amount

N/M IN BULK

FOB KWANGYANG KOREA

LIQUID PITCH

4,657.354M/T

* INVOICE NO. : 0000000815 DATED FEB. 06, 2000
 * PAYMENT INSTRUCTION
 PLEASE PAY THIS INVOICE AMOUNT BY TELEGRAPHIC TRANSFER (T/T)
 TO ACCOUNT NO. 361-81-100332 OF SHIN HAN BANK, SEODAEMUN BRANCH,
 SEOUL, KOREA IN FAVOUR OF DAEWOO CORP SEOUL (HVC SECTION) AND
 PLEASE INDICATE OUR REFERENCE NO. 0000000815 WHEN YOU REMIT
 THIS INVOICE AMOUNT.

////////////////////////////////////

17) C.P.O 2810 SEOUL, KOREA
 CABLE: DAEWOO SEOUL
 TELEX: DAEWOO K2334 1/4,K24295
 TELEPHONE: 759-2114

18) Signed by

DAEWOO
CORPORATION

ORIGINAL

DEPARTMENT OF THE TREASURY
UNITED STATES CUSTOMS SERVICE
19 U. S. C. 1481, 1482, 1484

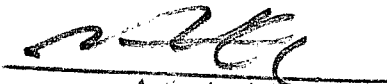
SPECIAL CUSTOMS INVOICE
(Use separate invoice for purchased and non-purchased goods.)

Form Approved.
O. M. B. No. 48-R0342

1. SELLER DAEWOO CORPORATION C.P.O. BOX 2810 SEOUL KOREA		2. DOCUMENT NR. *	3. INVOICE NR. AND DATE * 0000000815 FEB. 06, 2000
5. CONSIGNEE TO ORDER		6. BUYER (if other than consignee) KOPPERS INDUSTRIES INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.	
8. NOTIFY PARTY * KOPPERS INDUSTRIES, INC. C/O PORT OF PORTLAND PORTLAND OREGON, U.S.A.		7. ORIGIN OF GOODS THE REPUBLIC OF KOREA	
10. ADDITIONAL TRANSPORTATION INFORMATION * FROM : KWANGYANG, KOREA TO : PORTLAND, OREGON, U.S.A. CARRIER : OSPREY ARROW SAILING ON : FEB. 06, 2000		9. TERMS OF SALE, PAYMENT, AND DISCOUNT - F.O.B. KWANGYANG, KOREA * T/T REMITTANCE 45 DAYS AFTER B/L DATE	
11. CURRENCY USED		12. EXCH. RATE (if fixed or agreed)	13. DATE ORDER ACCEPTED

14. MARKS AND NUMBERS ON SHIPPING PACKAGES	15. NUMBER OF PACKAGES	16. FULL DESCRIPTION OF GOODS	17. QUANTITY	18. HOME MARKET	19. INVOICE	20 INVOICE TOTALS
N/M IN BULK		LIQUID PITCH - PURCHASE ORDER NO. : OM0-1670-2	4,657.354M/Ts			
////////////////////////////////////						

21. <input type="checkbox"/> If the production of these goods involved furnishing goods or services to the seller (e.g. assists such as dies, molds, tools, engineering work) and the value is not included in the invoice price, check box (21) and explain below.		22. PACKING COSTS	
27. DECLARATION OF SELLER/SHIPPER (OR AGENT)		23. OCEAN OR INTERNATIONAL FREIGHT	
I declare : (A) <input type="checkbox"/> If there are any rebates, drawbacks or bounties allowed upon the exportation of goods, I have checked box (A) and itemized separately below. I further declare that there is no other invoice differing from this one (unless otherwise described below) and that all statements contained in this invoice and declaration are true and correct.		(B) <input type="checkbox"/> If the goods were not sold or agreed to be sold, I have checked box (B) and have indicated in column 9 the price I would be willing to receive.	
(C) SIGNATURE OF SELLER/SHIPPER (OR AGENT) : DAEWOO CORPORATION		24. DOMESTIC FREIGHT CHARGES	
		25. INSURANCE COSTS	
29. THIS SPACE FOR CONTINUING ANSWERS		26. OTHER COSTS (Specify Below)	


Authorized Signature

THIS FORM OF INVOICE REQUIRED GENERALLY IF RATE OF DUTY BASED UPON OR REGULATED BY VALUE OF GOODS AND PURCHASE PRICE OR VALUE OF SHIPMENT EXCEEDS \$500. OTHERWISE USE COMMERCIAL INVOICE

* Not necessary for U. S. Customs purposes.

Customs Form 5515 (12-20-76)

1. Seller

DAEWOO CORPORATION
C.P.O. BOX 2810 SEOUL KOREA

2. Consignee

TO ORDER

ORIGINAL CERTIFICATE OF ORIGIN

issued by

THE KOREA CHAMBER OF COMMERCE & INDUSTRY
Seoul, Republic of Korea

원산지증명서
대한상공회의소

4. Buyer (if other than consignee)

KOPPERS INDUSTRIES, INC.
C/O PORT OF PORTLAND
PORTLAND OREGON, U.S.A

3. Particulars of Transport (where required)

* FROM : KWANGYANG, KOREA
* TO : PORTLAND, OREGON, U.S.A
* SAILING DATE: FEB. 06, 2000
* VESSEL NAME : OSPREY ARROW

5. Country of Origin

The Republic of Korea

6. Invoice Number and Date

0000000815

FEB. 06, 2000

7. Shipping Marks

N/M IN BULK

8. Number and Kind of Packages; Description of Goods

LIQUID PITCH

9. Quantity. Gross Weight or Measurement

4,657.354M/T
(QUANTITY)

* PURCHASE ORDER NO. : OM0-1670-2
* INVOICE NO. : 0000000815 DATED FEB. 06, 2000

10. Other Information

The Korea Chamber of Commerce & Industry hereby certifies, on the basis of relevant invoice and other documents, that the above mentioned goods originate in the country shown in column 5.





KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:

"KOMSA" SEOUL
C. P. O. BOX 3121 SEOUL
TLX. NO. KOMSA K24945
FAX. 754 - 8109

TELEPHONE

SEOUL 754-8106-8	YOSU	62-4589
PUSAN 44-5786		62-6599
ULSAN 72-7627	DONGHAE	33-1887
INCHON 763-9501-2		2474
MOKPO 43-1205	KWANGYANG	791-3950
POHANG 72-3942	KUNSAN	2-9350

DUPLICATE

Report No. G-000206-02 Issued at: Kwangyang, Korea Date: Feb. 6, 2000

TANK DRY CERTIFICATE

Applicant: Messrs. DAEWOO CORPORATION SEOUL, KOREA

Name of Vessel: " OSPREY ARROW " Voy. No. 123

Place & Date of Survey: Feb. 5, 2000 at the steel scrap wharf of POSCO, Kwangyang, Korea

THIS IS TO CERTIFY THAT we, the undersigned surveyors to KOREA MARINE
SURVEYORS & SWORN MEASURERS' CORPORATION, have this date inspected cargo tank(s)

Nos.: No. 1 TANK & NO. 2 TANK

and found same to be empty, dry, suitable and ready for loading Liquid Pitch in bulk

Heating coils in the following of the above inspected tank(s) are tested
with _____ steam pressure and found tight _____

Previous Cargo : Liquid Pitch

This inspection was made and certificate is given without prejudice to any question of rights
and/or liabilities on any persons interested or concerned.



MARINE SURVEYORS & SWORN
MEASURERS' CORPORATION (KOMSA)

Staff Surveyor, S. C. Ju

KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:

"KOMSA" SEOUL
C. P. O. BOX 3121 SEOUL
TLX. NO. KOMSA K24945

DUPLICATE

TELEPHONE

SEOUL 754-8106-8 YOSU 62-4589
PUSAN 44-5786 62-6599
ULSAN 72-7627 KWANGYANG 791-3950

SURVEY REPORT

(Sampling and Analysis Certificate)

Report No. G-000206-02-A Issued at: Kwangyang, Korea Date: Feb. 6, 2000

THIS IS TO CERTIFY THAT we, the undersigned, Korea Marine Surveyors & Sworn Measurers' Corporation, Kwangyang did at the request of Messrs. DAEWOO CORPORATION SEOUL, KOREA attend at the laboratory in the premises of the manufacturer in order to draw out a sample of the shipping cargo to be loaded on board the undernoted vessel and herewith report as follows:

DESCRIPTION

Name of Carrier : " OSPREY ARROW "
Commodity : Liquid Pitch in bulk
Quantity : 4,657.354 M/Tons
Port from/to : Kwangyang, Korea to Portland, Oregon, U.S.A

SAMPLING/ANALYSIS

The analysis for the above samples was carried out on attendance of the undersigned, the General Marine Surveyor, at the laboratory in the premises of the manufacturer on Feb. 6, 2000 and resulted as follows:

TEST ITEM & UNIT	SPEC.	RESULTS	METHOD
SOFTENING POINT(°C)	108~112	110.5	ASTM D 3104-87
QUINOLINE INSOLUBLE(%)	8~12	10.1	ASTM D 2318-86
TOLUENE INSOLUBLE(%)	28 MIN.	28.2	ASTM D 4072-91
COKING VALUE(%)	55.0 MIN.	59.2	ASTM D 2416-84
DISTILLATION TO 360°C(%)	3.0 MAX.	0.81	ASTM D 20-91
SPECIFIC GRAVITY(g/cm ³)	1.31 MIN.	1.321	ASTM D 2320-81
ASH(%)	0.30 MAX.	0.14	ASTM D 2415-66
SODIUM(ppm)	220 MAX.	65	A. A. METHOD
MOISTURE(%)	0.30 MAX.	0.1	ASTM D 95-83
MESOPHASE(<10 μm)	2.0 MAX.	0.20	ASTM D 4616-91

This report is given without prejudice.



KOREA MARINE SURVEYORS & SWORN
MEASURERS' CORPORATION

Staff Surveyor, S. C. Ju

KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:
"KOMSA" SEOUL
TLX. NO. KOMSA K24945
FAX. 754 - 8109

DUPLICATE

SURVEY REPORT

(Liquid Gauging of Tankers)

TELEPHONE
SEOUL 754-8106-8 YOSU 62-4589
ULSAN 72-7627 DONGHAE 33-1887
INCHON 763-9501-2 2474
MOKPO 43-1205 KWANGYANG 761-3950

Report No. G-000206-02-B Date Feb. 6, 2000
Applicant: DAEWOO CORPORATION SEOUL, KOREA
Name of Vessel: " OSPREY ARROW " Gross tonnage: _____
Port from and to: Kwangyang, Korea to Portland, Oregon, U.S.A
Place & Date of Survey: Feb. 6, 2000 at the steel scrap wharf of POSCO, Kwangyang, Korea

Description of cargo	Quantity on Invoice/B/L	Density	Remarks
Liquid Pitch in bulk	4,657.354 M/Tons	1.2348	201 °C

We hereby certify that the following figures are correct to our best knowledge, based on the Tank Scales provided on board.

<u>Tank</u> <u>No.</u>	<u>Gauging</u> (U11.)	<u>Corrected</u> (U11.)	<u>Water</u>	<u>App. Volume</u> (K/L)	<u>Temp</u> (°C)	<u>Density</u>	<u>Net Volume</u> (M/T)
No. 1	2.140	2.140	-	3,707.640	201	1.2348	4,578.194
No. 2	2.150	2.150	-	3,303.500	201	1.2348	4,079.160
TOTAL :	2 TANKS						8,657.354M/T
Remarks :- Ship's on board quantity were distributed based on the portion of each B/L figures which are as follows:-							
B/L Figures 4,657.354 M/Tons							
Remainder Other B/L 4,000.000 M/Tons							

THAT IS	FOUR THOUSAND SIX HUNDRED AND FIFTY SEVEN DECIMAL THREE FIVE FIVE(4,657.354)M/TONS
---------	--

Ship's Draft: Fore 6.700 m
After 7.200 m
Trim 1.500 m by the stern



MARINE SURVEYORS &
MEASURERS' CORPORATION

Surveyor, S. C. Ju

KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

Report No. G-000206-02-C

Issued at: Kwangyang, Korea

Date: Feb. 6, 2000

DUPLICATE SURVEY REPORT

(Certificate of Sampling)

THIS IS TO CERTIFY THAT WE, the undersigned surveyor to Korea Marine Surveyors & Sworn Measurers' Corporation, Kwangyang, Korea, did, at the request of Messrs. DAEWOO CORPORATION SEOUL, KOREA attend at the tank of manufacturer in order to draw out a sample of the shipping cargo to be loaded on board the undernoted vessel and herewith report as follows:-

DESCRIPTION

Name of Carrier : " OSPREY ARROW " Voy. No. : 123
Commodity : Liquid Pitch in bulk
B/L Quantity : 4,657.354 M/Tons
Port from/to : Kwangyang, Korea to Portland, Oregon, U.S.A

SAMPLING

Attending at the above mentioned place in company with parties concerned, the undersigned inspected sampling cans furnished by the applicant and found them cleaned and dry and then samples were taken in accordance with sampling method and plugged immediately/tightly by the undersigned surveyor.

<u>COMPONENT</u>	<u>QUANTITY</u>	<u>DISTRIBUTED</u>
BASED ON	3 Cans	One(1) can retained by this corporation.
ISO STANDARD		One(1) can to laboratory for analysis.
6257-1980(E)		One(1) can on board a plane for receiver at destination.

This survey was made and report is given without prejudice to any question of rights and/or liabilities on any other persons interested or concerned.



Staff Surveyor, S. C. Ju

KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION
(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

Report No. G-000206-02-D

Issued at: Kwangyang, Korea

Date: Feb. 6, 2000

DUPLICATE

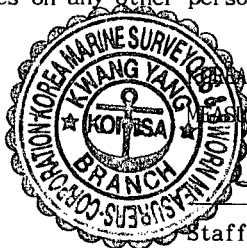
CERTIFICATE OF CARGO LOADING BY TANK

I hereby certify that, as the result of reading of the level gauge for the subject cargo and calculation of each tank on board the M.V "OSPREY ARROW", the following quantities of Liquid Pitch were found to be loaded into the tanks as shown below:-

No.1 Tank : 4,578.194 M/Tons

No.2 Tank : 79.160 M/Tons

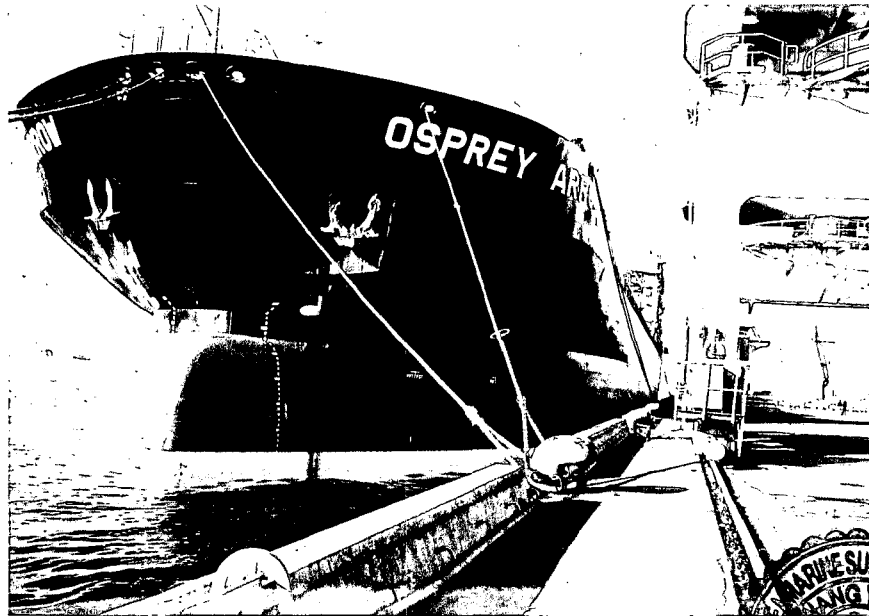
This survey was made and report is given without prejudice to any question of rights and/or liabilities on any other persons interested or concerned.



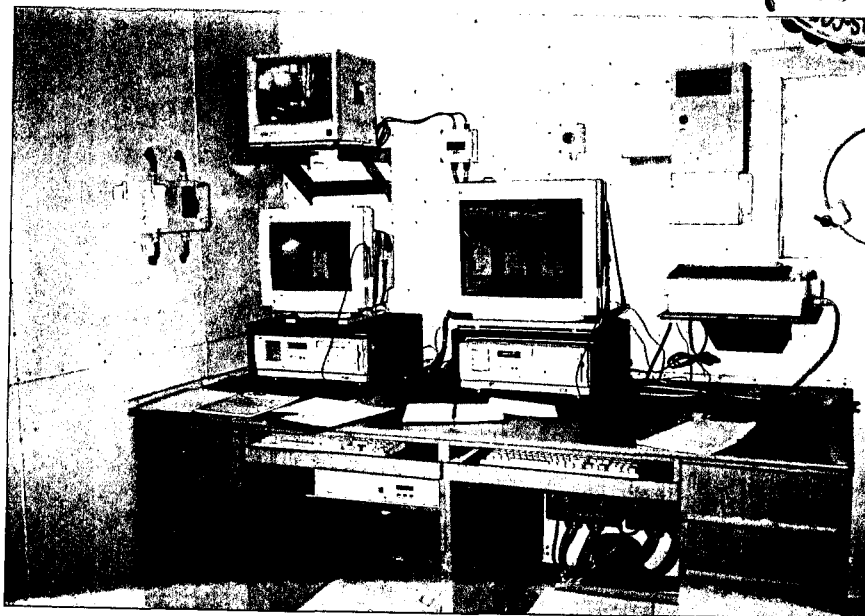
MARINE SURVEYORS & SWORN
MEASURERS' CORPORATION (KOMSA)

Staff Surveyor, S. C. Ju

Photo. Page No.1



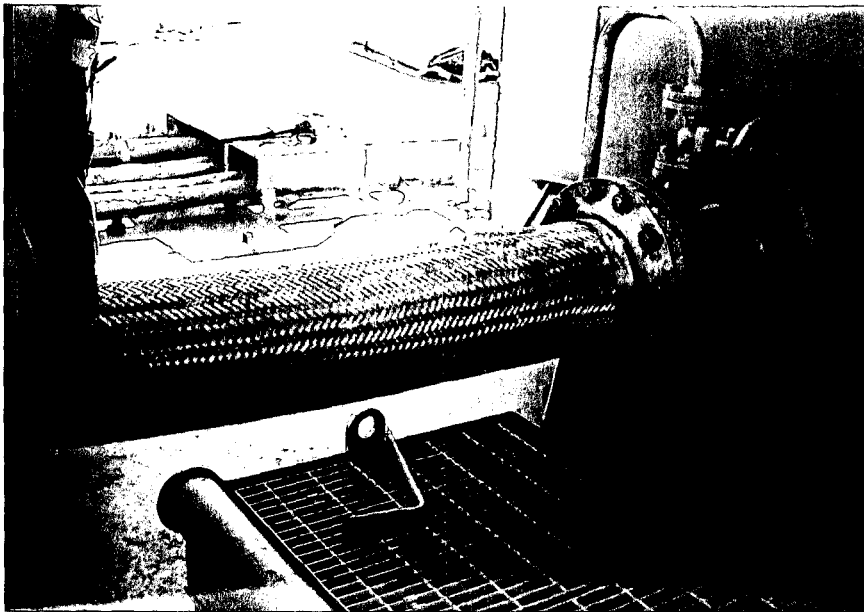
M. V " OSPREY ARROW " was lying afloat moored at the steel scrap wharf Kwangyang, Korea for the purpose loading the Liquid Pitch.



Control Room

- Attachment -

Photo. Page No.2



Connected Pipe Line(Manifold)





KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:

"KOMSA" SEOUL
C.P.O.BOX 3121 SEOUL
TLX.NO.KOMSA K24945
FAX. 754 - 8109

TELEPHONE

SEOUL 754-8106-8	YOSU	62-4589
PUSAN 44-5786		62-6599
ULSAN 72-7627	DONGHAE	33-1887
INCHON 763-9501-2		2474
MOKPO 43-1205	KWANGYANG	791-3950
POHANG 72-3942	KUNSAN	2-9350

ORIGINAL

Report No. G-000206-02 Issued at: Kwangyang, Korea Date: Feb. 6, 2000

TANK DRY CERTIFICATE

Applicant: Messrs. DAEWOO CORPORATION SEOUL, KOREA

Name of Vessel: " OSPREY ARROW " Voy. No. 123

Place & Date of Survey: Feb. 5, 2000 at the steel scrap wharf of POSCO, Kwangyang, Korea

THIS IS TO CERTIFY THAT we, the undersigned surveyors to KOREA MARINE
SURVEYORS & SWORN MEASURERS' CORPORATION, have this date inspected cargo tank(s)

Nos.: No.1 TANK & NO.2 TANK

and found same to be empty, dry, suitable and ready for loading Liquid Pitch in bulk

Heating coils in the following of the above inspected tank(s) are tested
with _____ steam pressure and found tight _____

Previous Cargo : Liquid Pitch

This inspection was made and certificate is given without prejudice to any question of rights
and/or liabilities on any persons interested or concerned.



KOREA MARINE SURVEYORS & SWORN
MEASURERS' CORPORATION (KOMSA)

Staff Surveyor, S. C. Ju

KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:

"KOMSA" SEOUL
C. P. O. BOX 3121 SEOUL
TLX. NO. KOMSA K24945

ORIGINAL

SEOUL 754-8106-8
PUSAN 44-5786
ULSAN 72-7627

TELEPHONE

YOSU 62-4589
62-6599
KWANGYANG 791-3950

SURVEY REPORT

(Sampling and Analysis Certificate)

Report No. G-000206-02-A Issued at: Kwangyang, Korea Date: Feb. 6, 2000

THIS IS TO CERTIFY THAT we, the undersigned, Korea Marine Surveyors & Sworn Measurers' Corporation, Kwangyang did at the request of Messrs. DAEWOO CORPORATION SEOUL, KOREA attend at the laboratory in the premises of the manufacturer in order to draw out a sample of the shipping cargo to be loaded on board the undernoted vessel and herewith report as follows:

DESCRIPTION

Name of Carrier : " OSPREY ARROW "
Commodity : Liquid Pitch in bulk
Quantity : 4,657.354 M/Tons
Port from/to : Kwangyang, Korea to Portland, Oregon, U.S.A

SAMPLING/ANALYSIS

The analysis for the above samples was carried out on attendance of the undersigned, the General Marine Surveyor, at the laboratory in the premises of the manufacturer on Feb. 6, 2000 and resulted as follows:

TEST ITEM & UNIT	SPEC.	RESULTS	METHOD
SOFTENING POINT(°C)	108~112	110.5	ASTM D 3104-87
QUINOLINE INSOLUBLE(%)	8~12	10.1	ASTM D 2318-86
TOLUENE INSOLUBLE(%)	28 MIN.	28.2	ASTM D 4072-91
COKING VALUE(%)	55.0 MIN.	59.2	ASTM D 2416-84
DISTILLATION TO 360°C(%)	3.0 MAX.	0.81	ASTM D 20-91
SPECIFIC GRAVITY(g/cm3)	1.31 MIN.	1.321	ASTM D 2320-81
ASH(%)	0.30 MAX.	0.14	ASTM D 2415-66
SODIUM(ppm)	220 MAX.	65	A. A. METHOD
MOISTURE(%)	0.30 MAX.	0.1	ASTM D 95-83
MESOPHASE(<10 μm)	2.0 MAX.	0.20	ASTM D 4616-91

This report is given without prejudice.



KOREA MARINE SURVEYORS & SWORN
MEASURERS' CORPORATION

Staff Surveyor, S. C. Ju

KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

TELEGRAMS:
"KOMSA" SEOUL
TLX. NO. KOMSA K24945
FAX. 754 - 8109

ORIGINAL

SURVEY REPORT

(Liquid Gauging of Tankers)

TELEPHONE
SEOUL 754-8106-8 YOSU 62-4589
ULSAN 72-7627 DONGHAE 33-1887
INCHON 763-9501-2 2474
MOKPO 43-1205 KWANGYANG 761-3950

Report No. G-000206-02-B Date Feb. 6, 2000

Applicant: DAEWOO CORPORATION SEOUL, KOREA

Name of Vessel: " OSPREY ARROW " Gross tonnage: _____

Port from and to: Kwangyang, Korea to Portland, Oregon, U.S.A

Place & Date of Survey: Feb. 6, 2000 at the steel scrap wharf of POSCO, Kwangyang, Korea

Description of cargo	Quantity on Invoice/B/L	Density	Remarks
Liquid Pitch in bulk	4,657.354 M/Tons	1.2348	201 °C

We hereby certify that the following figures are correct to our best knowledge, based on the Tank Scales provided on board.

<u>Tank No.</u>	<u>Gauging</u> (U11.)	<u>Corrected</u> (U11.)	<u>Water</u>	<u>App. Volume</u> (K/L)	<u>Temp</u> (°C)	<u>Density</u>	<u>Net Volume</u> (M/T)
No. 1	2.140	2.140	-	3,707.640	201	1.2348	4,578.194
No. 2	2.150	2.150	-	3,303.500	201	1.2348	4,079.160
TOTAL :	2 TANKS						8,657.354M/T
<p>Remarks :- Ship's on board quantity were distributed based on the portion of each B/L figures which are as follows:-</p> <p style="text-align: right;">B/L Figures 4,657.354 M/Tons Remainder Other B/L 4,000.000 M/Tons</p>							

THAT IS	FOUR THOUSAND SIX HUNDRED AND FIFTY SEVEN DECIMAL THREE FIVE FIVE(4,657.354)M/TONS
---------	--

Ship's Draft: Fore 6.700 m
After 7.200 m
Trim 1.500 m by the stern



MARINE SURVEYORS &
MEASURERS' CORPORATION

Staff Surveyor, S. C. Ju

KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION
(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

Report No. G-000206-02-C

Issued at: Kwangyang, Korea

Date: Feb. 6, 2000

ORIGINAL
SURVEY REPORT

(Certificate of Sampling)

THIS IS TO CERTIFY THAT WE, the undersigned surveyor to Korea Marine Surveyors & Sworn Measurers' Corporation, Kwangyang, Korea, did, at the request of Messrs. DAEWOO CORPORATION SEOUL, KOREA attend at the tank of manufacturer in order to draw out a sample of the shipping cargo to be loaded on board the undernoted vessel and herewith report as follows:-

DESCRIPTION

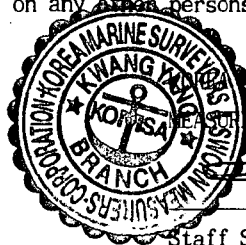
Name of Carrier : " OSPREY ARROW " Voy. No. : 123
Commodity : Liquid Pitch in bulk
B/L Quantity : 4,657.354 M/Tons
Port from/to : Kwangyang, Korea to Portland, Oregon, U.S.A

SAMPLING

Attending at the above mentioned place in company with parties concerned, the undersigned inspected sampling cans furnished by the applicant and found them cleaned and dry and then samples were taken in accordance with sampling method and plugged immediately/tightly by the undersigned surveyor.

<u>COMPONENT</u>	<u>QUANTITY</u>	<u>DISTRIBUTED</u>
BASED ON	3 Cans	One(1) can retained by this corporation.
ISO STANDARD		One(1) can to laboratory for analysis.
6257-1980(E)		One(1) can on board a plane for receiver at destination.

This survey was made and report is given without prejudice to any question of rights and/or liabilities on any other persons interested or concerned.



MARINE SURVEYORS & SWORN
MEASURERS' CORPORATION (KOMSA)

Staff Surveyor, S. C. Ju

KOREA MARINE SURVEYORS & SWORN MEASURERS' CORPORATION

(RECOGNIZED & LICENSED BY KOREAN GOVERNMENT)

Report No. G-000206-02-D

Issued at: Kwangyang, Korea

Date: Feb. 6, 2000

ORIGINAL

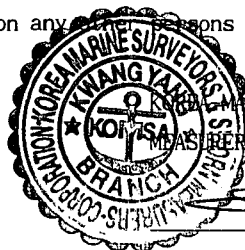
CERTIFICATE OF CARGO LOADING BY TANK

I hereby certify that, as the result of reading of the level gauge for the subject cargo and calculation of each tank on board the M.V "OSPREY ARROW", the following quantities of Liquid Pitch were found to be loaded into the tanks as shown below:-

No.1 Tank : 4,578.194 M/Tons

No.2 Tank : 79.160 M/Tons

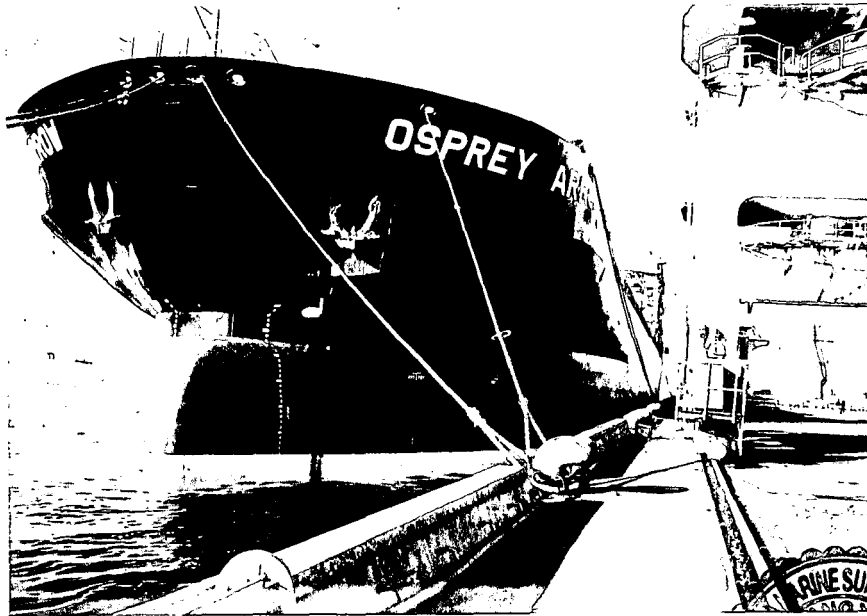
This survey was made and report is given without prejudice to any question of rights and/or liabilities on any persons interested or concerned.



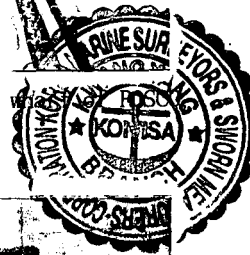
Staff Surveyor, S. C. Ju

- Attachment -

Photo. Page No.1



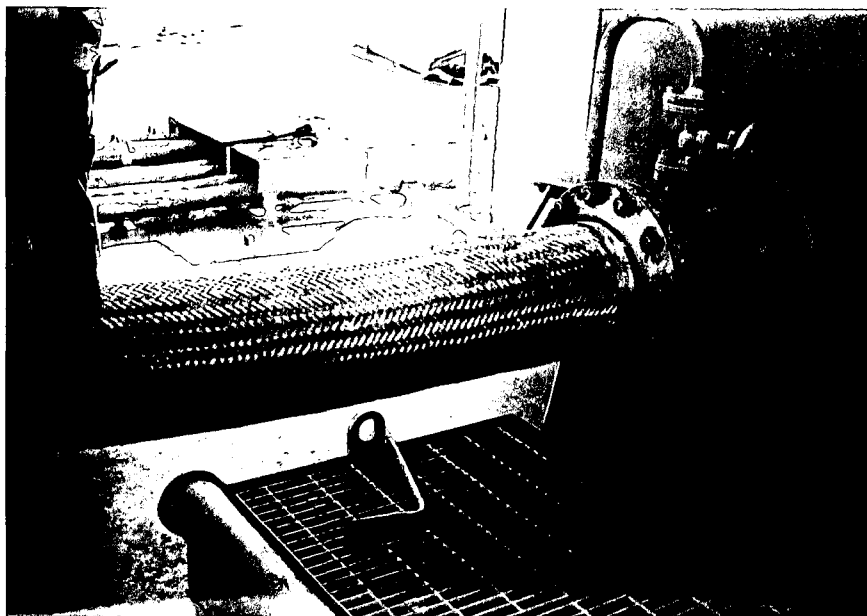
M.V " OSPREY ARROW " was lying afloat moored at the steel scrap wharf in Kwangyang, Korea for the purpose loading the Liquid Pitch.



Control Room

- Attachment -

Photo. Page No.2



Connected Pipe Line(Manifold)



T. J. Turner
General Foreman



Koppers Inc.
Carbon Materials and Chemicals
Portland, OR

Internal Memo

Date: October 5, 2004

From: T. J. Turner

To: Jim Dietz

cc: Kevin Fitzgerald
Traci Self
John Marcinowski
Heather Risher
Greg Tomlinson
CM&C Plant Managers
CM&C SH&E Coordinators

Subject: **Monthly Highlights Letter – September 2004**

SAFETY/ENVIRONMENTAL

	<u>MONTH</u>	<u>YTD</u>
HOURS WORKED	373	3357
LOST TIME ACCIDENTS	0	0

There were no lost time accidents or OSHA reportable incidents during the month, marking our 78th consecutive month without any reportable incidents. The following training was conducted during the month: Pitch Ship Unloading Procedure. 1 observation and 5 contacts were conducted during the month.

Submittals due and/or sent for current month:

Requirement	Frequency	Date Due	Date Submitted	Notes
September NPDES DMR	Monthly	10/15/04	10/5/04	

Submittals due next three months:

Requirement	Frequency	Date Due	Notes
October NPDES DMR	Monthly	11/15/04	
November NPDES DMR	Monthly	12/15/04	
December NPDES DMR	Monthly	1/15/05	

SHIPMENTS/PRODUCTION

<u>COMMODITY</u>	<u>UNIT</u>	<u>MONTH</u>	<u>YTD</u>
LIQUID PITCH	TONS	189	278
INTALCO TRANSSHIPMENT	TONS	996	8809
TOTAL LIQUID SHIPPED	TONS	1185	9087

We shipped 34 tank truckloads of liquid pitch to Intalco, during the month, approximately 5 of those loads were Koppers pitch. We also invoiced them for 18 tons of soft pitch, used for SP adjustments. We had surprise RCRA inspection from the Oregon DEQ, they did issue an NOV that will be responding to.

CUSTOMER CONTACTS

ALCOA-WENATCHEE: Alcoa has announced that they have come to a tentative agreement with their unions representing the Wenatchee smelter and that if the contract changes are ratified, that they will be re-starting the facility. No timing for the re-start was given; however, they did say that by mid year 2005 they would be up 50% production or about 91,000 metric tones per year.

COLUMBIA FALLS: Nothing to report.

INTALCO: Lowell Salhus, regarding shipment scheduling for the month. We have been supplying these folks with Koppers pitch the last week or so, while awaiting the arrival of their next cargo from Korea which is due in to the terminal on October 9th.

T. J. Turner

